

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base ☒ Option Period NumberTitle of Work Assignment
"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See Attached SOWPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan ApprovalPeriods of Performance
From: 06/26/09 To: 06/22/10Comments:
This amendment approves the Technical and Financial Work Plan dated 10 July 2009, at a cost of \$212,065.00. Currently, there are 1,745 Professional Labor Hours allocated for this Work Assignment.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	1,745
This Action	\$212,065.00	0
Total	\$212,065.00	1,745

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/10/09	Cost/Fee: \$212,065.00	LOE:
Cumulative Approved: 07/30/09	Cost/Fee: \$212,065.00	LOE: 1,745

Work Assignment Manager Name

E. M. WINES

Branch/Mail Code G-17J

Phone Number (312) 886-6034.

Fax Number (312) 353-2018

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

Contract: EP-W-09-024, Work Assignment: 0-01, Amendment: 0001

Summary Information

Title: "Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

Period of Performance: From: 06/26/09 To: 06/22/10

Award Date: 06/26/09

Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
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WASHINGTON, DC 20460

Date Role Ended: 07/28/09

Mail Code: 3803R
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Fax Number: (202) 565-2560
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ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
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WASHINGTON, DC 20460

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-1

☒ Original ☐ Amendment Number:

Contract Number
EP-W-09-024

Contract Period
Base X Option Period Number

Title of Work Assignment
"Technical Support for EPA's "A Great
Lakes Binational Toxic Strategy" Canada -
U.S. Strategy for the Virtual Elimination of
Persistent Toxic Substances in the Great
Lakes"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See Attached SOW

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:
Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 6)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE
Previously Approved

This Action

Total \$0.00 1,745

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 1,745

Work Assignment Manager Name

E. M. WINES

Branch/Mail Code G-17J

Phone Number (312) 886-6034

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(Signature)

(Date)

Project Officer Name

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Branch/Mail Code 7404T

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(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

Branch/Mail Code 3803R

Phone Number (202) 564-9706

Fax Number (202) 565-2560

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

Contract: EP-W-09-024, Work Assignment: 0-01

Summary Information

Title: "Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

Period of Performance: From: 06/26/09
To: 06/22/10

Award Date:

Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

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Attachments

Attachment Name

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S.

Contract: EP-W-09-024, Work Assignment: 0-01

Battelle Contract No.: EP-W-09-024

Work Assignment No.: WA 0-01

Title: Technical Support for EPA's "A Great Lakes Binational Toxics Strategy: Canada-U.S. Strategy for the Virtual Elimination of Persistent Toxic Substances in the Great Lakes"

Purpose: This Work Assignment supports the Great Lakes Binational Toxics Strategy (also, Strategy, or GLBTS), which in turn complements and contributes to the Agency-wide Persistent, Bioaccumulative and Toxic Chemicals (PBT) Strategy. The PBT Strategy targets the Level I substances list of the GLBTS, as well as other toxic substances, for activities and actions relating to the reduction of these substances in the environment.

I. Background

EPA's Great Lakes National Program Office (GLNPO), located in Chicago, acts as the Agency's knowledge center for a geographic area, the Great Lakes watershed. In keeping with the objectives of the Great Lakes Water Quality Agreement (GLWQA) to "virtually eliminate" the discharge of persistent toxic substances into the Great Lakes basin, in 1993 GLNPO began the "Virtual Elimination Pilot Project". GLNPO developed technical, research and policy reports which laid the theoretical groundwork for the GLBTS, and by extension, the PBT Strategy.

On April 7, 1997, Administrator Browner and the Canadian Minister of the Environment March signed the GLBTS. In line with the GLWQA, the GLBTS calls for reduction and virtual elimination of targeted persistent toxic substances in the Great Lakes basin. Several substances are targeted for percentage reductions within a ten-year time frame on the path to virtual elimination.

Implementation of the GLBTS entails in part a four-step analytical process for assessing sources of the Level I toxic substances, summarizing regulatory incentives and disincentives, and promoting appropriate actions by Stakeholders.

II. Scope of Work

The Contractor shall perform the tasks as listed below. This work assignment continues efforts performed under the previous Work Assignment for these services under EP-W-04-021. There shall not be any duplication of effort.

Task 1: Task Management

The Contractor shall prepare and submit a work plan in accordance with the requirements of this contract. The Contractor shall also participate in general planning conference calls and on-site meetings, prepare monthly progress reports, and conduct other task management activities.

The Contractor's monthly progress reports shall provide a breakdown of costs for each subtask and for each workgroup. Costs shall be provided on a bimonthly basis. If the Contractor determines that there are insufficient hours allocated to complete any given task, the Contractor shall convey this information to the EPA WAM as soon as possible.

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S.

Contract: EP-W-09-024, Work Assignment: 0-01

The Contractor shall ensure that appropriate quality assurance measures are taken. Deliverables are expected to be of high quality and to contain a minimum of errors (unless the document requested is simply an interim draft).

The Contractor shall ensure that documents to be posted on the web are constructed on GLNPO's EXTRANET, "<http://chicago.glnpo.net/bns/>". GLNPO will establish an account for the Contractor's use.

The Contractor shall submit all final reports/documents as Microsoft Word and Adobe Acrobat Portable Document File, via email and/or disk.

The Contractor shall assist EPA in assuring that there is proper coordination between the GLBTS and the PBT Strategy, other EPA efforts such as Lakewide Management Plans (LaMPs) and Remedial Action Plans (RAPs), and with other international toxics reduction efforts such as the work being done on Persistent Organic Pollutants (POPs) and by the Commission for Environmental Cooperation (CEC), etc.

The Contractor shall assist EPA in assuring that the many tasks to be carried out under this work assignment are completed in accordance with the overall GLBTS schedule, and that information obtained in support of any GLBTS-related task is also made available to all other relevant parties. In other words, the Contractor shall help assure that "economies of scale" are realized, and that the implementation of the GLBTS is carried out as efficiently as possible.

The Contractor shall assist EPA with reporting and with outreach/communication efforts, and shall provide substance-specific workgroup support, technical support and analyses, support for public meetings, and support to LaMPs (upon further direction by the WAM). The Contractor shall also assist EPA in its efforts to meet the long-range transport and sediment challenges delineated in the GLBTS (upon further direction by the WAM).

Task 2: Reports

Upon further direction by the EPA WAM, the Contractor shall make modifications to the GLBTS Step 3 reports, Management Assessment Report, and other reports produced in the effort to assist the GLBTS Workgroups. The schedules for delivering these report modifications will be provided by the WAM at the time of assignment.

Task 3: Work Group Support

The Contractor shall assist EPA's workgroup leaders. The Contractor shall help the workgroup leaders to prepare for meetings and/or workshops with their workgroups, facilitate workgroup meetings, and provide minutes from the meetings (unless otherwise directed). They shall also provide technical and administrative assistance to the workgroup leaders as requested. The Contractor shall continue to report the amount of effort expended in support of each of the chemical-specific work groups, whenever such a breakdown is possible. The following are the named EPA work groups:

Mercury	-B(a)P/HCB
Pesticides	-Dioxins/Furans
Burn Barrel Sub-workgroup	
OCS	-PCBs
Sector Workgroup	-Substance Workgroup

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S.

Contract: EP-W-09-024, Work Assignment: 0-01

GLBTS Management Framework
Integration Workgroup
PBT Reduction Strategy Team

Task 4: Outreach and Communication

Upon further direction by the EPA WAM, the Contractor shall assist in the development of strategies for outreach to industry, States, Tribes, environmental groups and other non-governmental organizations, the public, and other stakeholders.

The Contractor shall assist EPA in its communication efforts as directed by EPA WAM. This shall include updating the stakeholder database so that it is easily used to reach stakeholders via e-mail, sending messages to stakeholders, gathering responses, preparing documents for public use, etc.

Workgroup Activity Updates, as directed by the WAM, the contractor shall prepare a draft and final bi-annual "Updates". These "Updates" will be completed for distribution at the bi-annual GLBTS Stakeholder Forum meetings.

The Contractor shall also prepare the draft GLBTS Progress Report, obtaining information related to GLBTS activities for the period of December 2006 through November 2007.

Task 5: Technical Support and Analyses

The Contractor shall provide technical support to EPA to assist in carrying out the implementation of the GLBTS. The Contractor shall develop and analyze innovative and non-regulatory strategies for the reduction and virtual elimination of the Level I and Level II GLBTS substances. This analysis shall be conducted in such a way as to facilitate communication and involve stakeholders. Emphasis should be on how to actually effect change -- what incentives to use to get stakeholders to change practices, and how to implement specific actions at the Lake, State and local levels to achieve reductions. Much of this analysis will be incorporated into the reports discussed earlier. The Contractor shall provide draft and final Management Assessment Reports on all Level I Substances, including a Final Summary document which provides an Executive Summary plus all of the final Management Assessment Reports.

Task 6: Support to Lakewide Management Plans

The Contractor shall provide technical support to EPA for development of various LaMP documents (i.e., Lake Superior LaMP and the AIS Prevention Plan). The Contractor shall provide updates for the following documents developed under the previous Work Assignment (i.e. 2008 LaMP)

Task 7: Support to Public and Other Meetings

The Contractor shall prepare materials in support of and will attend Great Lakes Binational Toxics Strategy-related meetings. It is anticipated that there will be at least three general Stakeholder Forum meetings, three Integration and/or Sector/Substance workgroup meetings. The Contractor (as directed by the EPA WAM) shall prepare materials in support of and will attend PBT Reduction Strategy Team meetings/calls and the 10-year Anniversary Workshop.

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S.

Contract: EP-W-09-024, Work Assignment: 0-01

III. Deliverables

The Contractor shall prepare and submit a revised work plan in accordance with contract requirements. EPA will approve the work plan in accordance with contract requirements.

The Contractor shall prepare supporting materials, meeting minutes/summaries and strategic direction for the Integration Workgroup, Stakeholder, PBT Strategy Team and other meetings. The Contractor shall also help develop and/or revise the reports as outlined above, following WAM technical direction, as indicated in Attachment A.

A QA/QC plan is not required.

CBI does not apply.

This work assignment relates to pages 4-17 through 6-17 of the current Statement of Work (SOW) of the contract.

IV. Period of Performance

This work assignment will start with the date of the Contracting Officer's signature and extend through March 3, 2010.

"Technical Support for EPA's "A Great Lakes Binational Toxic Strategy" Canada - U.S.

Contract: EP-W-09-024, Work Assignment: 0-01

V. Level of Effort

The number of technical hours shall not exceed 1,745. The Contractor shall notify the EPA WAM when 75% of the allotted hours have been reached either in any one funding category or in the overall work assignment.

VI. EPA Contacts

Work Assignment Manager:

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States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Title of Work Assignment

"Technical Support to Chemical Hazard and
Risk Evaluation and Risk Management"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated 10 July 2009, at a cost of \$434,807.00. Currently, there are 3,620 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	3,620
This Action	\$434,807.00	0
Total	\$434,807.00	3,620

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/10/09	Cost/Fee: \$434,807.00	LOE:
Cumulative Approved: 07/30/09	Cost/Fee: \$434,807.00	LOE: 3,620

Work Assignment Manager Name

JEFFREY A. TAYLOR

Branch/Mail Code 7405M

Phone Number (202) 564-8828

Fax Number (202) 564-4775

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contract: EP-W-09-024, Work Assignment: 0-02, Amendment: 0001

Summary Information

Title: "Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date: 06/26/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
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Date Role Ended: 07/28/09

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ADMINISTRATIVE CONTRACTING OFFICER:

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Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number
0-00000000

Work Assignment

Contract Number
EP-W-09-024

Contract Period
Base X Option Period Number

☒ Original ☐ Amendment Number:

Title of Work Assignment
"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance
From: 06/26/09 To: 06/22/10

Comments:
Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
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4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE
Previously Approved

This Action

Total \$0.00 3,620

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:
Cumulative Approved: Cost/Fee: \$0.00 LOE: 3,620

Work Assignment Manager Name

JEFFREY A. TAYLOR

Branch/Mail Code 7405M

Phone Number (202) 564-8828

Fax Number (202) 564-4775

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

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Phone Number (202) 564-9706

Fax Number (202) 565-2560

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(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contract: EP-W-09-024, Work Assignment: 0-02

Summary Information

Title: "Technical Support to Chemical Hazard and Risk
Evaluation and Risk Management"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

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Attachments

Attachment Name

"Technical Support to Chemical Hazard and Risk Evaluation and Risk
Management"

"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contract: EP-W-09-024, Work Assignment: 0-02

Battelle Contract Number: EP-W09-024
Work Assignment Number: 0-02

Title: Technical Support to Chemical Hazard and Risk Evaluation and Risk Management

This work assignment continues and expands upon the work initiated under Work Assignment 4-02 of Contract EP-W-04-021. No work performed under previous work assignments will be duplicated under this work assignment.

I. Background:

This work assignment, entitled *Technical Support to Chemical Hazard and Risk Evaluation and Risk Management*, was developed to provide EPA with support in reviewing high and moderate production volume chemicals and pursuing follow-up work for those chemicals that have the highest hazard and risk.

High production volume (HPV) chemicals are those that are produced/imported in the United States at volumes greater than or equal to 1 million pounds per year. Moderate production volume (MPV) chemicals are those that are produced/imported in the United States at volumes of greater than or equal to 25,000 pounds and less than 1 million pounds per year. EPA used the production/import volumes from the 2006 Inventory Update Reporting (IUR) to identify approximately 6,750 HPV and MPV chemicals. In part, EPA can draw upon existing data sources to evaluate many of the 6,750 chemicals. Launched in 1998, EPA's HPV Challenge Program resulted in a great deal of chemical manufacturer-supplied hazard data posted to EPA's website that can now be used by the Agency to evaluate hazard and risk. Chemical manufacturers continue to submit materials to the HPV Challenge Program, such as revised chemical test plans and data summaries, but the program is in its final stages as the evaluation of this collected data becomes more prominent. The HPV Challenge Program hazard data is now being reviewed by EPA, along with exposure data collected from IUR, as the Agency evaluates chemicals according to whether additional voluntary or regulatory action is appropriate. For the chemicals that EPA identifies as high hazard and risk, the Agency will focus efforts on managing the risk through requests for voluntary submission of information from industry, or through regulatory actions such as information collection mechanisms or prohibiting some or all uses of certain chemicals.

II. Scope of Work:

Subtask 1. Work Plan and Task Management

The contractor shall prepare and submit a technical and financial work plan in accordance with the requirements of this contract. Work under this subtask shall include participating in conference calls, preparing the monthly progress reports, and other task management.

Subtask 2. HPV Challenge Program Information

The contractor shall continue to track HPV Challenge Program submissions and will supply an evaluation of the commitment and test plan information in the form of a narrative and statistics update upon the WAM's request. The contractor shall supply all documents in Microsoft Office application format, such as in Microsoft Word, Excel, and

"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contract: EP-W-09-024, Work Assignment: 0-02

Access.

The contractor shall also assist EPA with special analyses, such as those related to unsponsored ("orphan") chemicals, "overdue" chemicals for which the Agency has received commitments but no data submissions, and any other analyses that can be conducted based upon the HPV Challenge Program information that has been tracked over the years.

Subtask 3. Hazard and Risk Evaluation

The contractor shall help EPA create hazard and risk reviews. The contractor may review hazard characterization and other documents to ensure consistency between these documents as well as the data submissions under the HPV Challenge Program. The contractor will help EPA take follow-up action on chemicals that generally have the most hazard and risk concerns. Follow-up action can consist of asking chemical companies for voluntary submission of information, or the Agency may take a more regulatory approach, such as by issuing test rules in order to secure additional data, or prohibiting the use of a chemical. As a part of these efforts, the contractor will help EPA conduct research on the chemicals in order to develop a clear understanding of whether or how the chemicals have been regulated in the past.

The contractor shall maintain a tracking system in an effort to keep accurate records of which HPV/MPV chemicals have been reviewed and the follow-up work that the Agency is taking on the highest hazard and risk chemicals. EPA work products will be tracked in terms of when they were created, who created them, and the multiple follow-up actions that EPA has taken to address hazard and risk concerns, among other variables.

The contractor shall provide support at interdivision meetings where chemicals are evaluated in terms of the level of hazard and risk. The meetings may occur approximately once weekly and last approximately one-to-two hours in duration, and require notetaking and voice recording so that EPA has a record of the communications. The contractor may also provide logistical support, facilitation, and notetaking for other Existing Chemicals meetings.

Subtask 4. Inventory Update Reporting (IUR) Support

The contractor shall be responsible for providing EPA with statistics in terms of production volume, companies, uses, and other IUR information that has been captured by EPA. EPA will provide Battelle with a confidential business information (CBI) IUR database in order for queries to be conducted on the information.

III. Deliverables:

- | | | |
|---------------|--|---|
| Subtask
1. | The contractor shall prepare and submit the work plan in accordance with contract requirements. | |
| Subtask
2. | HPV Challenge Program Narrative and Counts Reports.
HPV Challenge Program Special Analyses. | Approximately 2x's/year.
At WAM's Request. |
| Subtask
3. | Hazard/Risk Evaluation: <ul style="list-style-type: none">• Help EPA review materials. | |

"Technical Support to Chemical Hazard and Risk Evaluation and Risk Management"

Contract: EP-W-09-024, Work Assignment: 0-02

- Conduct Research / Follow-Up Action At WAM's Request.
- Capture Interdivision Notes. At WAM's Request.
- Other Meeting Support Approximately 1 Meeting/Week.

Subtask 4. Inventory Update Reporting (IUR) Support At WAM's Request.

- EPA will approve the work plan within 45 days.
- A QA plan is not required.
- A work plan is required.
- CBI does apply.
- The work assignment relates to _____. {TBD}

IV. Period of Performance:

This Work Assignment will start with the date of the Contracting Officer's signature and extend through June 2, 2010.

V. Level of Effort:

The level of effort described in this work assignment shall not exceed 3,620 professional hours.

VI. EPA Contacts:

Work Assignment Manager

Jeffrey Taylor
EPA East Building, Rm 4410H, MC 7405M
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Deputy Work Assignment Manager

Karen Hoffman
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Deputy Work Assignment Manager

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1200 Penn. Ave, NW, Washington, DC 20460
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FAX: (202) 564-4775

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☐ Original ☒ Amendment Number: 2Contract Number
EP-W-09-024Contract Period
Base ☒

Option Period Number

Title of Work Assignment
"Mercury Reductions and Chemicals
Management in Honduran Hospitals"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See the attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 07/14/09

To: 06/22/10

Comments:

A Stop Work Order is issued for this Work Assignment. The level of effort is reduced to 11, which is the amount of Professional Labor Hours expended.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	456
This Action	\$0.00	(445)
Total	\$0.00	11

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE: 445
Cumulative Approved: 12/08/09	Cost/Fee: \$0.00	LOE: 11

Work Assignment Manager Name

ERIK L. WINCHESTER

Branch/Mail Code 7404T

Phone Number (202) 564-6450

Fax Number (202) 566-0470

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03, Amendment: 0002

Summary Information

Title: "Mercury Reductions and Chemicals Management in Honduran Hospitals"
Period of Performance: From: 07/14/09
To: 06/22/10
Award Date: 07/14/09
Total Funding:

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 456 to 11.

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-03

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Mercury Reductions and Chemicals
Management in Honduran Hospitals"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See the attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 07/14/09

To: 06/22/10

Comments:

The Work Plan dated 24 August 2009, is rejected. The Program Office will revise the scope of the Work Assignment and request a revised Work Plan at a later date.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	456
This Action	\$0.00	0
Total	\$0.00	456

Work Plan / Cost Estimate Approvals

Contractor WP Dated : 08/24/09	Cost/Fee:	LOE: 0
Cumulative Approved:	Cost/Fee: \$0.00	LOE: 456

Work Assignment Manager Name

ERIK L. WINCHESTER

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 564-6450

Fax Number (202) 566-0470

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03, Amendment: 0001

Summary Information

Title: "Mercury Reductions and Chemicals Management in Honduran Hospitals"

Period of Performance: From: 07/14/09
To: 06/22/10

Award Date: 07/14/09

Total Funding:

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-03

Work Assignment

☒ Original ☐ Amendment Number:Contract Number
EP-W-09-024

Contract Period

Base ☒

Option Period Number

Title of Work Assignment

"Mercury Reductions and Chemicals
Management in Honduran Hospitals"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See the attached Statement of Work

Purpose:

☒ Work Assignment Initiation ☐ Work Assignment Close-Out☐ Work Assignment Amendment ☐ Incremental Funding☐ Work Plan Approval

Periods of Performance

From: 07/13/09

To: 06/22/10

Comments:

Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:

Cost/Fee

LOE

Previously Approved

This Action

Total

\$0.00

456

Work Plan / Cost Estimate Approvals

Contractor WP Dated :

Cost/Fee:

LOE:

Cumulative Approved:

Cost/Fee: \$0.00

LOE: 456

Work Assignment Manager Name

Branch/Mail Code 7404T

ERIK L. WINCHESTER

Phone Number (202) 564-6450

(Signature)

(Date)

Fax Number (202) 566-0470

Project Officer Name

Branch/Mail Code 7404T

SINETA WOOTEN

Phone Number (202) 566-0501

(Signature)

(Date)

Fax Number (202) 566-0469

Other Agency Official Name

Branch/Mail Code

Phone Number

(Signature)

(Date)

Fax Number

Contracting Official Name

Branch/Mail Code 3803R

CHRISTINE EDWARDS

Phone Number (202) 564-2182

(Signature)

(Date)

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

Summary Information

Title: "Mercury Reductions and Chemicals Management in Honduran Hospitals"
Period of Performance: From: 07/13/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: ERIK L. WINCHESTER
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ALTERNATE WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
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E-Mail Address: groeneveld.thomas@epa.gov

Attachments

Attachment Name

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

Battelle Contract Number: EP-W-09-024

Work Assignment: 0-03

Title: "Mercury Reductions and Chemical Management in Honduran Hospitals"

Purpose

The contractor shall provide technical support and expertise for mercury reduction and elimination audits in approximately seven Honduran hospitals to be selected at the technical direction of the EPA Work Assignment Manager. The contractor shall provide an expert to travel to the selected hospitals, audit the presence and use of mercury and mercury-containing equipment devices on hand, and work with the hospitals to develop plans and programs to eliminate the use of mercury-containing devices and products, and devise ways for hospitals to properly dispose of the devices and products. The expert should be English/Spanish bilingual and have experience conducting assessments and writing management plans on issues such as healthcare facilities and medical devices, medical waste and disposal, and waste treatment alternatives. The expert will work with the selected hospitals to develop plans to phase out and eventually eliminate the use of mercury-containing products and devices. The selected hospitals should have policies in place that address the issue of mercury elimination, if not, the expert shall work with the hospitals to develop or modify and update their plans. The contractor shall also conduct follow up assessments of the hospital facilities after mercury elimination programs have been fully implemented to assess their effectiveness and document their successes, identify barriers preventing successful implementation (if any), adjust plans as appropriate based on program feedback, and update projections of amount of mercury to be removed.

I. Background

Mercury is a reproductive toxin and a potent neurotoxin and affects the brain and the central nervous system. Pregnant women, women of childbearing age and small children are at the greatest risk. Mercury can cross the placenta and cause irreparable neurological damage to the fetus. While mercury is found in many common household products such as batteries, light bulbs, and home thermometers, mercury is found in many medical devices and some chemicals commonly used in hospitals and health care laboratories. When these products are spilled, broken or disposed of improperly, there is a potential for significant exposure and harm to human health and the environment. In hospitals the most likely routes of human exposure are inhalation of inorganic mercury vapor or when liquid mercury is absorbed through the skin after a spill, such as when spilled in a small, poorly ventilated room. Although only a relatively small amount of mercury – roughly one gram – is released when each thermometer breaks, when taken cumulatively on a hospital ward, in an entire hospital, or nationally and globally, the situation takes on larger and more serious dimensions. A list of medical devices that contain mercury, as

well as mercury-free alternatives can be found at
http://www.sustainablehospitals.org/cgi-bin/DB_Index.cgi.

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

In many cases medical waste disposal is through incineration in medical waste incinerators, as well as municipal waste incinerators, which emit mercury when they burn wastes that contain mercury. In past studies the USEPA has found that medical waste incinerators are the fourth largest source of mercury to the environment. Hospitals are also known to contribute 4-5% of the total wastewater mercury load in the United States. Other studies have shown that there is up to 50 times more mercury in medical waste than in general municipal waste, and the amount of mercury emitted from general medical waste incinerators averages more than 60 times that from pathological incinerators. Medical devices and hospital-related wastes that contain mercury or have been contaminated by mercury are hazardous and should be kept out of the waste stream by removing from use mercury-containing products and through proper mercury waste disposal practices.

Because mercury is used globally in a wide range of products and uses, any efforts to assist international partners in reducing their use of mercury-containing products, such as those found in hospitals, will contribute to the overall goal of reducing mercury as a global pollutant hazard.

II. Scope of Work

Task 1: Project Management

The contractor shall prepare and submit a work plan 15 days after being directed to start the project by the Work Assignment Manager (WAM). Work under this task shall include participating in conference calls, meetings, and other correspondence with the Environmental Protection Agency (EPA) and other work assignment management.

This Work Assignment will require the travel of one technical expert to approximately seven Honduran hospitals select through technical direction of the WAM. The technical expert should be bilingual—proficient in English and Spanish. If the technical expert lacks Spanish proficiency, a translator local to the hospital location may be used. The technical expert should have experience conducting assessments and writing management plans on issues such as healthcare facilities and medical devices, medical waste and disposal, and treatment alternatives.

The technical expert shall be subject to written (WAM) approval.

- Experience conducting assessments of healthcare facilities and medical waste and disposal plans
- Experience developing healthcare facility management and medical waste disposal plans
- Experience working collaboratively with hospital staff auditing healthcare facilities and developing management and other plans
- Experience working collaboratively with and producing quality work for government agencies and/or international organizations
- Strong background in chemistry, likely to include advanced degrees (masters, Ph.D)

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

- Understanding, which should include previous work and/or research, of elemental mercury, exposure pathways, and health effects of mercury
- Understanding, which should include previous work and/or research, of medical instruments, devices, systems, and drugs
- Understanding, which should include previous work and/or research, of medical instruments, devices, systems, and drugs where mercury may be found and the purpose of that mercury
- Understanding of waste disposal options and medical supply options in Central America
- Experience in the handling of mercury waste

EPA will reimburse the travel and related expenses of the technical expert only. The technical expert shall fly economy class and the contractor shall exercise due diligence in finding and purchasing reasonably priced airfare.

The contractor shall adhere to the policies set by the U.S. Department of State on per diem rates and shall not exceed and/or spend under the maximum per diem allowances. Policies can be found here: <http://www.state.gov/m/a/als/prdm/1502.htm>
The latest approved maximum rates can be found here:
<http://www.state.gov/m/a/als/prdm/>

Air travel purchase, hotel accommodations, and all other travel arrangements are subject to written approval of the WAM.

The contractor shall propose the length of stay in number of days needed to conduct work at each hospital with the length of stay subject to written approval of the WAM.

Task 2: Hospital Facility Assessments/Audits

The contractor shall conduct a full facility assessment and note the type and quantities of mercury-containing equipment and products at each hospital facility. The contractor shall have an understanding of medical facilities and devices in order to identify which devices contain mercury and which departments or sections of the hospital mercury and mercury-containing devices may be present. The contractor shall prepare and submit to the WAM an inventory of mercury in each hospital, it may be possible to combine the individual reports in to one report; the expert shall discuss this with the WAAM prior to preparing the report(s). A hospital inventory will include a breakout by:

- Identification of mercury-containing product or device
- Amount of mercury per product or device in grams per unit
- Hospital specialization area where mercury is located, i.e., laboratory, pediatrics, surgery
- Sub-total grams of mercury in each hospital specialization area
- Total grams of mercury in hospital
- If possible, a quantitative or qualitative tally of how many devices are disposed of each year

Task 3: Mercury Management Plan Assessments

The contractor shall assess hospital plans and actual practices as they relate to mercury. This includes but is not limited to mercury reduction and elimination plans and practices already in place, facility mercury management plans, mercury spill clean up plans, staff training on mercury, purchasing plans, and waste disposal plans. This task will require the expert to collect and review all written policies and procedures of the hospitals. If such plans are not available the contractor shall note the deficiency.

Task 4: Mercury Management Plan Assistance

The contractor shall use the information obtained in Tasks 2 and 3 to analyze and work with hospitals to develop and/or improve on their mercury management. The contractor shall use their preexisting knowledge and understanding of relevant issues of mercury use in hospital facilities, laboratories, and medical instruments, mercury elimination, the Latin America health care system, waste disposal options in Latin America, availability of mercury-free substitutes, hospital operations, and the Spanish language in assisting the hospitals in developing such plans. Plans may include action items and suggested roles and requirements of the facility, the U.S. Environmental Protection Agencies, and the hospital's regional, national, and/or local environmental agencies. The contractor shall provide a detailed estimate the amount of mercury expected to be removed by implementation of these plans.

Plans that should be developed include, but are not limited to:

Facility Mercury Management Plan

Mercury Containing Materials Disposal Plan

Mercury Spill Plan

Mercury Free Purchasing Plan

Patient Education Plan

Goals will be set for mercury elimination over a one year period and an interim progress report will be developed.

Task 5: Post Implementation Assessment

The contractor shall reassess the facilities after the plans have been fully implemented, approximately 18 months from the initial visit. The date for this assessment is subject to WAM approval. The contractor shall produce a report documenting how successful the implementation has been, what barriers to success exist if any, and update or modify plans created under Task 4 as needed. The contractor shall assess how much mercury has been removed, an estimated schedule with projections of amounts of mercury to be removed as the plans proceed, and amounts of mercury that could be reduced under any

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

new or revised plans that are developed. This information shall be reported back to the EPA WAM.

Task 6: Training

The contractor shall conduct a workshop to train hospital staff, staff from other hospitals in the country, and representatives from the country's government health agencies in mercury elimination and will provide guidance to said staff and agencies throughout the 18 month period from the initial hospital visit.

Task 7: Document and Product Translations

When directed by the WAM, the contractor shall translate documents to and from languages determined by the WAM.

III. Deliverables:

Task 1 Work Plan in 15 days after written request from WAM

Task 2 Draft report and inventory 6 months after submission of work plan. Final report 2 months later.

Task 3 Draft report 7 months after submission of work plan. Final report 2 months later.

Task 4 Draft report and plans 8 months after submission of work plan. Final report 2 months later.

Task 5 Draft report 2 months after post-implementation assessment is conducted, outlining results, successes, and areas for continued improvement. Final report 2 months later.

Task 6 Draft training plan two weeks prior to initial training date. Draft report on training one month after conducting training. Final report 2 months later.

Task 7 Translated documents as requested,

The contractor shall submit a brief monthly letter report (can be emailed) to EPA detailing the work done in Tasks 2, 3, 4, 5, 6, and 7.

A work plan is required.

A QA/QC plan is not required.

CBI does not apply.

This Work Assignment relates to Tasks 6 in the contract.

"Mercury Reductions and Chemicals Management in Honduran Hospitals"

Contract: EP-W-09-024, Work Assignment: 0-03

IV. Period of Performance:

This work assignment will start on the date of the contracting officer's signature and extend through June 22, 2010..

V. Level of Effort:

This work assignment shall require 456 professional hours.

VI. EPA Contacts:

Work Assignment Manager:

Erik Winchester
Program Assessment and Outreach Branch
National Program Chemicals Division
V: 202-2564-6450
Fx: 202-566-0469

Deputy Work Assignment Manager:

Thomas Groeneveld
Program Assessment and Outreach Branch
National Program Chemicals Division
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Fx: 202-566-0469

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

☐ Original ☒ Amendment Number: 5Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Support for Renovation, Repair and
Painting Rule"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This amendment rejects the Technical and Financial Work Plan dated 22 April 2010. A revised Financial Plan is required for the LOE increase of 550 Professional Labor Hours, and there's a revision to Task 5 which increases the number of Cleaning Verification Cards by 300,000.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$327,296.00	2,100
This Action	\$0.00	550
Total	\$327,296.00	2,650

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE: 550
Cumulative Approved:	Cost/Fee: \$327,296.00	LOE: 2,650

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0005

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date: 06/26/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 06/10/10

Mail Code: 3803R
Phone Number: (202) 564-9706
Fax Number: (202) 565-2560
E-Mail Address: bushta.dennisjames@epa.gov

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: CHRISTINE EDWARDS
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 2100 to 2650.

United States Environmental Protection Agency
Washington, DC 20460

Assignment Number

Work Assignment

☐ Original ☒ Amendment Number: 4Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Support for Renovation, Repair and
Painting Rule"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This Work Assignment is amended to add a new task (Task 6). A revised Financial Work
Plan will be required.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$327,296.00	1,800
This Action	\$0.00	300
Total	\$327,296.00	2,100

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE: 300
Cumulative Approved:	Cost/Fee: \$327,296.00	LOE: 2,100

Work Assignment Manager Name

RONALD J. MORONY

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

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(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

Branch/Mail Code 3803R

Phone Number (202) 564-9706

Fax Number (202) 565-2560

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0004

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date: 06/26/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
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Fax Number: (202) 565-2560
E-Mail Address: bushta.dennisjames@epa.gov

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: CHRISTINE EDWARDS
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 04/08/10

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

Attachments

The following item(s) have been added:

Attachment Name

Revised SOW dated 4/08/2010

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 1800 to 2100.

Revised SOW dated 4/8/2010

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0004

Contract Number: EP-W-09-024

Work Assignment Number: 0-04

Change Number: 4

Date: 08 April 2010

Title: Support for the Renovation, Repair and Painting Rule

Purpose: No change.

I. Background: No change.

II. Scope of Work:

Tasks 1-5: No Change

Add a new task 6.

Task 6: RRP Logo Site

The contractor shall develop and maintain the web site where certified renovation firms can access and download the RRP logo with their own certification number. The contractor shall also provide and email address and phone number to answer technical questions on the downloading of the RRP logo.

III. Deliverables:

Tasks 1 to 5: No change

Task 6. A letter report providing statistics on the activity for the contract period shall be provided.

A work plan is not required.

A QA/QC plan is not required.

CBI does not apply.

This work assignment relates to Tasks II, III and IV of the current Statement of Work (SOW) of the contract.

IV. Period of Performance:

This work assignment will start on the date of the contracting officer's signature and extend through June 22, 2010.

V. Level of Effort:

This work assignment shall require no more than 300 more professional hours for a total for this work assignment of 2,100 hours.

VI. EPA Contact:

Work Assignment Manager:

Ronald J. Morony
US EPA National Program Chemicals Division
Program Assessment and Outreach Branch(7404T)
1200 Pennsylvania Avenue, NW
Washington, DC 20460
Ph: 202-566-0474
Fax: 202-566-0469

Deputy Work Assignment Manager:

Clarence Lewis
US EPA National Program Chemicals Division
Lead, Heavy Metals and Inorganics Branch(7404T)
1200 Pennsylvania Avenue, NW
Washington, DC 20460
Ph: 202-566-1243

United States Environmental Protection Agency
Washington, DC 20460

Assignment Number

Work Assignment

☐ Original ☒ Amendment Number: 3Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Support for Renovation, Repair and
Painting Rule"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated 02 March 2010, at a cost of \$32,006.00. Currently, there are 1,800 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$295,290.00	1,800
This Action	\$32,006.00	0
Total	\$327,296.00	1,800

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 03/02/10	Cost/Fee: \$32,006.00	LOE:
Cumulative Approved: 03/23/10	Cost/Fee: \$327,296.00	LOE: 1,800

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0003

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10,
Award Date: 06/26/09
Total Funding:

WA Totals

The following item(s) have been modified:

Category	POP	From	By	To
Estimated Cost	Base Pd.	<div style="border: 1px solid black; padding: 5px;">(b)(4)</div>		
Fixed Fee	Base Pd.			

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0

☐ Original ☒ Amendment Number: 2Contract Number
EP-W-09-024

Contract Period

Base ☒

Option Period Number

Title of Work Assignment

"Support for Renovation, Repair and
Painting Rule"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out☒ Work Assignment Amendment ☐ Incremental Funding☐ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This amendment adds Task #5 to the Statement of Work and increases the LOE by 300
Professional Labor Hours (PLH), revising the total LOE to 1800 PLHs.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$295,290.00	1,500
This Action	\$0.00	300
Total	\$295,290.00	1,800

Work Plan / Cost Estimate Approvals

Contractor WP Dated:	Cost/Fee:	LOE: 300
Cumulative Approved:	Cost/Fee: \$295,290.00	LOE: 1,800

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0002

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date: 06/26/09
Total Funding:

Attachments

The following item(s) have been added:

Attachment Name

Amendment #2 to SOW for WA 0-04

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 1500 to 1800.

Amendment #2 to SOV for WA 0-04

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 002

Contract Number: EP-W-09-024

Work Assignment #: WA 0-04, Amendment# 2

Title: "Support for RRP Implementation"

Background: No change.

Tasks 1 thru 4: No change.

Add a new task 5.

Task 5. Support for Compliance Assistance

When directed by the WAM the Contractor shall arrange for booth space and for the EPA exhibit to be shipped, set up, taken down and return shipped. Staffing of the booth will be as directed by the WAM. The contractor staff will distribute EPA materials and answer simple questions. Difficult questions will be referred to EPA employees. It is anticipated that 4 trade shows will be attended between now and the end of the contract year. It is anticipated that one Contractor staff will be required and that the shows will be scattered across the country and require 4 staff days each.

CBI does not apply.

A work plan is not required.

QAQC is not required.

Deliverables:

Within 2 weeks of the completion of the trade show a short letter report (one or two pages) summarizing the traffic past the booth and questions asked will be submitted.

Schedule: No change

Level of Effort: Increase by 300 hours revising the total LOE to 1,800 hours.

Contacts: No change.

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Support for Renovation, Repair and Painting Rule"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated 10 July 2009, at a cost of \$295,290.00. Currently, there are 1,500 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund**Accounting and Appropriations Data**☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	1,500
This Action	\$295,290.00	0
Total	\$295,290.00	1,500

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/10/09	Cost/Fee: \$295,290.00	LOE:
Cumulative Approved: 07/30/09	Cost/Fee: \$295,290.00	LOE: 1,500

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04, Amendment: 0001

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date: 06/26/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 07/28/09

Mail Code: 3803R
Phone Number: (202) 564-9706
Fax Number: (202) 565-2560
E-Mail Address: bushta.dennisjames@epa.gov

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: CHRISTINE EDWARDS
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☒ Original ☐ Amendment Number:Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Support for Renovation, Repair and
Painting Rule"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/26/09

To: 06/22/10

Comments:
Work Assignment Initiation☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 3)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE

Previously Approved

This Action

Total \$0.00 1,500

Work Plan / Cost Estimate Approvals

Contractor WP Dated : Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 1,500

Work Assignment Manager Name

RONALD J. MORONY

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

Branch/Mail Code 3803R

Phone Number (202) 564-9706

Fax Number (202) 565-2560

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04

Summary Information

Title: "Support for Renovation, Repair and Painting Rule"
Period of Performance: From: 06/26/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: RONALD J. MORONY
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 7404T
Phone Number: (202) 566-0474
Fax Number: (202) 566-0469
E-Mail Address: morony.ronald@epa.gov

ALTERNATE WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: CLARENCE O. LEWIS
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 7404T
Phone Number: (202) 566-1243
Fax Number: (202) 566-0469
E-Mail Address: lewis.clarence@epa.gov

Attachments

Attachment Name

"Support for Renovation, Repair and Painting Rule"

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04

Contract Number: EP-W-09-024

Work Assignment Number: 0-04

Change Number: 0

Title: Support for the Renovation, Repair and Painting Rule

Purpose: This work assignment will provide statistical and program support to the Office of Pollution Prevention and Toxics in a quick response mode. The work includes responding to short duration technical studies relating to EPA's Lead-Based Paint Rules, updating documents that have to be modified to incorporate the requirements of the Renovation, Repair and Painting Rule (RRP), developing and testing RRP exam questions, and providing Cleaning Verification Cards. This is a continuation of work begun under WA 4-05 of contract EP-W-04-021. No work will be duplicated.

I. Background: There is a need to provide quick turn around on response to comments and other issues concerning EPA's Lead -Based Paint Rules especially the Renovation, Repair and Painting Rule and other actions to support the Rules.

II. Scope of Work:

Task 1: Technical Studies

When directed by the WAM, the Contractor shall prepare analyses, briefing materials, responses to comments, and other support. The format of the deliverable will be specified at the time of technical direction.

Task 2: Review of Lead Hazard Information Documents

When directed by the WAM the contractor shall format and deliver using MS Word word processing software the text of the provided NPCD's lead hazard document. Subsequently, EPA will provide in MS Word revised wording, deletions or changes as indicated for the various documents. The contractor will then make the necessary changes or incorporate the new language and/or tables and graphics and track the changes made for EPA's Office of General Council and EPA management. EPA will direct the contractor which documents to work on.

Task 3: Update of Selected Lead Hazard Information Documents

In conjunction with EPA staff, the contractor shall update selected lead hazard documents with the changes provided, incorporating new language and/or tables and graphics based upon any new rules, regulations and information to date. The contractor shall acquire from the EPA WAM, if available, all previous software and/or negatives for documents to be updated. It is anticipated that each document will be revised several times before the final text and graphics are approved. All documents shall be updated and provided to the EPA WAM using the most recent version of Adobe Creative Suite software for Windows.

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04

Task 4: Cleaning Verification Card

When directed by the Work Assignment Manager provide 100,000 to 200,000 copies of one or more sizes of the Cleaning Verification Card. These cards shall be laminated and contain the legend that shows when the cards will expire. The cards must be indistinguishable from the ones used in the dust study. The cards will be delivered to the National Lead Information Center, EPA Regional Offices and EPA Headquarters in quantities as directed by the WAM..

Task 5: RRP Course Exam Questions

When directed by the Work Assignment Manager the Contractor shall develop and evaluate questions with answers for the Renovator and/or Dust Sampling Technician courses. The questions shall be evaluated and revised as needed.

III. Deliverables:

Tasks 1 to 5: The due dates for the specific products will be from several days to 2 months depending on the complexity of the work and/or will be specified by the EPA WAM at the time technical direction is given.

A work plan is not required.

A QA/QC plan is not required.

CBI does not apply.

This work assignment relates to Tasks II, III and IV of the current Statement of Work (SOW) of the contract.

IV. Period of Performance:

This work assignment will start on the date of the contracting officer's signature and extend through June 22, 2010.

V. Level of Effort:

This work assignment shall require no more than 1,500 professional hours.

VI. EPA Contact:

Work Assignment Manager:

Ronald J. Morony

US EPA National Program Chemical Division

Program Assessment and Outreach Branch (7404T)

1200 Pennsylvania Ave., NW

Washington, DC 20460

"Support for Renovation, Repair and Painting Rule"

Contract: EP-W-09-024, Work Assignment: 0-04

PH: 202-566-0474

Fax: 202-566-0469

Deputy Work Assignment Manager:

Clarence Lewis

US EPA National Program Chemicals Division

Lead, Heavy Metals and Inorganics Branch (7404T)

1200 Pennsylvania Ave., NW

Washington, DC 20460

PH: 202-566-1243

Fax: 202-566-0469

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0

☐ Original ☒ Amendment Number: 3Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Title of Work Assignment

"Technical Support for PCB Permit and Document Development"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out☒ Work Assignment Amendment ☐ Incremental Funding☒ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated December 3, 2009 at a cost of \$35,989.00. The total LOE is increased by 3 Professional Labor Hours (PLH), revising the LOE to 609 PLHs.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 8)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$39,335.00	606
This Action	\$35,989.00	3
Total	\$75,324.00	609

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 12/03/09	Cost/Fee: \$35,989.00	LOE: 3
Cumulative Approved: 02/24/10	Cost/Fee: \$75,324.00	LOE: 609

Work Assignment Manager Name

WINSTON M. LUE

Branch/Mail Code 5303P

Phone Number (703) 305-1617

Fax Number (703) 308-8638

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for PCB Permit and Document Development"

Contract: EP-W-09-024, Work Assignment: 0-05, Amendment: 0003

Summary Information

Title: "Technical Support for PCB Permit and Document Development"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

WA Totals

The following item(s) have been modified:

Category	POP	From	By	To
-----	-----	-----	-----	-----
Estimated Cost	Base Pd.	\$ (b)(4)		
Fixed Fee	Base Pd.			

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 606 to 609.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-

☐ Original ☒ Amendment Number: 2

Contract Number
EP-W-09-024

Contract Period
Base ☒

Option Period Number

Title of Work Assignment
"Technical Support for PCB Permit and Document Development"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment increases the Professional Labor Hours from 335 to 606. The labor hour increase is required in order for the Contractor to run more samples than were previously estimated. A revised Financial Work Plan is required.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$39,335.00	335
This Action	\$0.00	271
Total	\$39,335.00	606

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE: 271
Cumulative Approved:	Cost/Fee: \$39,335.00	LOE: 606

Work Assignment Manager Name

WINSTON M. LUE

(Signature)

(Date)

Branch/Mail Code 5303P

Phone Number (703) 305-1617

Fax Number (703) 308-8638

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for PCB Permit and Document Development"

Contract: EP-W-09-024, Work Assignment: 0-05, Amendment: 0002

Summary Information

Title: "Technical Support for PCB Permit and Document Development"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 335 to 606.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☐ Original ☒ Amendment Number: 1

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"Technical Support for PCB Permit and Document Development"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance
From: 06/30/09 To: 06/22/10

Comments:
This amendment approves the Technical and Financial Work Plan dated 30 July 2009, at a cost of \$39,335.00. Currently, there are 335 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	310
This Action	\$39,335.00	25
Total	\$39,335.00	335

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/30/09	Cost/Fee: \$39,335.00	LOE: 25
Cumulative Approved: 09/02/09	Cost/Fee: \$39,335.00	LOE: 335

Work Assignment Manager Name

Branch/Mail Code 5303P

WINSTON M. LUE

Phone Number (703) 305-1617

(Signature)

(Date)

Fax Number (703) 308-8638

Project Officer Name

Branch/Mail Code 7404T

SINETA WOOTEN

Phone Number (202) 566-0501

(Signature)

(Date)

Fax Number (202) 566-0469

Other Agency Official Name

Branch/Mail Code

Phone Number

(Signature)

(Date)

Fax Number

Contracting Official Name

Branch/Mail Code 3803R

CHRISTINE EDWARDS

Phone Number (202) 564-2182

(Signature)

(Date)

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for PCB Permit and Document Development"

Contract: EP-W-09-024, Work Assignment: 0-05, Amendment: 0001

Summary Information

Title: "Technical Support for PCB Permit and Document Development"
Period of Performance: From: 06/30/09 To: 06/22/10
Award Date: 06/30/09
Total Funding:

WA Totals

The following item(s) have been added:

Category	POP	Amount
-----	-----	-----
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 310 to 335.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-

☒ Original ☐ Amendment Number:

Contract Number
EP-W-09-024

Contract Period
Base X

Option Period Number

Title of Work Assignment
"Technical Support for PCB Permit and Document Development"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:
Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:
Previously Approved

Cost/Fee

LOE

This Action

Total \$0.00 310

Work Plan / Cost Estimate Approvals

Contractor WP Dated:

Cost/Fee:

LOE:

Cumulative Approved:

Cost/Fee: \$0.00

LOE: 310

Work Assignment Manager Name

WINSTON M. LUE

(Signature)

(Date)

Branch/Mail Code 5303P

Phone Number (703) 305-1617

Fax Number (703) 308-8638

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Technical Support for PCB Permit and Document Development"

Contract: EP-W-09-024, Work Assignment: 0-05

Summary Information

Title: "Technical Support for PCB Permit and Document Development"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
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ALTERNATE WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
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Fax Number: (703) 308-8638
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STATEMENT OF WORK

Contract Number: EP-W-09-024, Option 0

Work Assignment: 0-05

Title: Performance Based Work Assignment -Technical Support for PCB Permits and Document Development

Background:

The Toxic Substance Control Act (TSCA) of 1976 requires EPA to develop rules to regulate the manufacture, processing, distribution in commerce, use, or disposal of chemical substances. Section 6(e) of the Act specifically names polychlorinated biphenyls (PCBs), requiring rules to specify methods for the disposal of PCBs.

Regulations promulgated in Subpart D of 40 CFR 761 authorize EPA Headquarter to issue PCB disposal approvals, valid nationwide, to mobile disposal facilities and fixed facilities as well as issue PCB alternative decontamination approvals. TSCA regulations delegate signatory authority to the Assistant Administrator of the Office of Solid Waste and Emergency Response (OSWER) for permits issued by EPA Headquarters. In FY 2008, EPA transferred the administration and implementation of the Toxic Substances Control Act's (TSCA) Polychlorinated Biphenyl (PCB) Cleanup and Disposal Program from the Office of Prevention, Pesticides and Toxic Substances (OPPTS) to the Office of Solid Waste and Emergency Response (OSWER).

Individuals seeking approvals to dispose of PCBs or decontaminate PCB-contaminated materials must submit a permit application and a demonstration plan for EPA review. EPA reviews the permit application for completeness. The application must include the demonstration plan indicating a demonstration can be performed safely with a good probability of success. Once the application review is complete, EPA will require the company to demonstrate the operation of its technology under reasonable worst case operating conditions. EPA will issue an approval to operate the alternative disposal or decontamination technology once the company has demonstrated their PCB disposal or decontamination process is effective, the technology is capable of processing PCB material without frequent breakdowns, and does not present unreasonable risks to health and the environment.

Typically, PCB disposal technologies are classed into three categories, (a) incineration, (b) thermal alternative technology, and (c) non-thermal alternative technology. Alternative technologies include surface and aqueous media decontamination processes. The alternative disposal technology must be demonstrated in the presence of EPA evaluators. During the demonstration, EPA will collect samples of materials before and after treatment to confirm the PCBs were destroyed. Upon confirmation of PCB destruction, EPA will issue an approval for the technology.

I. Purpose:

Any person wishing to dispose of PCBs must use approved methods and must obtain an approval. Several methods for disposal and decontamination are listed in §761, but alternative technologies for disposal and decontamination may be used if an approval is granted by the EPA. Persons can apply to the EPA for approval of PCB disposal by non-thermal alternative methods (§761.60(e)), alternative decontamination procedures (§761.79(h)), thermal alternative methods (§761.60(e)), and incineration (§761.70). EPA must confirm the PCB Disposal and decontamination technologies demonstrated by permit applicants comply with EPA requirements. To accomplish this, EPA will require contractor support.

At the direction of the Work Assignment Manager, the Contractor shall prepare and ship sampling kits to sites designated by the WAM. EPA will collect samples during the PCB Disposal or Decontamination Demonstration, pack the samples, and send the samples to the Contractor. The Contractor shall analyze samples collected by EPA to confirm the technologies destroy and/or remove PCBs from various waste feed matrices or materials. The Contractor shall prepare QA samples in a variety of matrices for EPA to evaluate the laboratory facilities to be used by the applicant during commercial PCB Disposal or Decontamination operation or during the PCB Disposal or Decontamination demonstration. The Contractor shall transmit preliminary analytical results of the demonstration samples to EPA. These preliminary results will assist EPA in determining the efficacy of the new disposal or decontamination technologies.

The Contractor shall develop a document that will help persons apply for approvals for alternative technologies under §761. The document will discuss requirements for approval applications, demonstration test plans, demonstration test reports, as well as describe the approval process and how to conduct a demonstration. Other elements may be requested by the WAM.

The contractor shall also develop other documents that will provide information to the regulated community on how to cleanup and dispose of PCBs in compliance with the PCB Regulations (§761). These documents will help persons apply for disposal and cleanup PCB approvals from the EPA.

II. Scope of Work:

A. PCB Disposal and Decontamination Demonstrations. There are approximately five possible demonstrations covered under this Work Assignment. Generally, EPA collects a set of samples for starting material or feed, samples of treated material and samples of process waste. At times, in addition to the standard samples for feed, process streams, and process waste, questionable process or waste streams may be sampled to clarify regulatory status of the material. Also, blind QA audit samples may, at the direction of the WAM, be shipped to the laboratory selected to perform the permit applicant's product analysis during commercial operations. For the different types of

demonstrations, the estimated number of samples and type of samples to be collected by EPA for analysis are listed below. Possibility exists that one of the demonstrations may involve sampling and analysis of low radioactive material.

1 – Alternative Thermal technology approval. Feed and treated material may contain low radioactive substances.

Samples: Liquid or non-liquid feed (3), treated material (3), water discharge (3), QA samples (3).

2 – Alternative Non-thermal technology approval. Feed and treated material may contain low radioactive substances.

Samples: Liquid or non-liquid feed material (3), treated material (3), water discharge (3), QA samples (3).

3 – Alternative decontamination approval.

Samples: Wipe samples before treatment (3), wipe samples after treatment (3), QA samples (3), water discharge (3).

B. Documents on PCB Cleanup and Disposal – PCB Any person wishing to dispose of PCBs must use approved methods and must obtain an approval. The person must first submit an application package to their EPA Regional Office or to EPA Headquarters, depending on the signing authority for their approval. For disposal approvals, demonstrations are often required, which involve submission of test plans and test results to the EPA. This Work Assignment covers the development of documents that describe the components of and level of detail needed for PCB disposal or cleanup approvals.

B. Work Tasks

Task 1. Task Management

The Contractor shall prepare and submit a work plan. Work under this task shall include participating in conference calls, meetings, preparing the monthly progress report and other task management. This assignment requires a QA/QC plan. EPA will review and comment on the work plan and the QA/QC plan within 45 days. This statement of work also requires the use of TSCA CBI.

Task 2. Preparation of a QA/QC Plan.

The Contractor shall prepare a Quality Assurance Project Plan for the analysis of all collected samples during the duration of this work assignment. The Quality Assurance Plan will follow the format and requirements as specified in "EPA Requirements for Quality Assurance Project Plans (QA/R-5)" (2001, EPA/240/B-01/003)¹. A draft of that

¹ <http://www.epa.gov/quality/qs-docs/r5-final.pdf>

plan will be submitted for review by the WAM. The Contractor shall incorporate the comments and submit a final version of the Quality Assurance Project Plan.

NOTE: The tasks below represent all of the possible items that may be required by EPA to support the PCB cleanup and disposal program. Written technical direction will be provided by the WAM which will specify the items and quantities needed for each permit.

Task 3. Sample Collection and Analysis

- A. EPA will observe on-site the PCB Disposal or Decontamination Demonstrations and will collect samples and transfer the samples to the Contractor. The Contractor shall analyze the samples appropriately, as outlined below.

- (1) For analysis of polychlorinated biphenyls (PCBs), the Contractor shall analyze samples for classes of PCB compounds named Aroclor. These compounds include but are not limited to the following:

Aroclor 1242	Aroclor 1264
Aroclor 1254	Aroclor 1016
Aroclor 1260	

- (2) For analysis of PCBs, the Contractor shall provide analytical instrument capability and methodologies to analyze and to identify the 209 congeners of polychlorinated biphenyls.
- (3) For analysis of PCBs, the Contractor shall provide analytical instrument capability and methodologies to analyze and to identify PCBs, separating and quantitating the identified PCBs in homologs from mono- to deca-chlorinated biphenyls. The analytical standard to be used shall be the Dry Color Manufacturer Association (DCMA) standard or equivalent.
- (4) The Contractor shall transmit analytical results of the demonstration samples to EPA in three stages. First, the raw data will be submitted by telephone or email as directed by the WAM. These results will assist EPA in determining the efficacy of the new disposal or decontamination technologies. Second, the Contractor shall prepare a draft digital report. Third, after receiving comments from the WAM, the Contractor shall then prepare the final analytical results which incorporate the WAM's comments.
- (5) The Contractor shall analyze for other pollutants of interest as directed by the WAM. For example, PCBs in the U.S. is in short supply. The possibility exists that surrogates for PCBs may necessarily be used

during PCB Disposal or Decontamination Demonstration. Should surrogates be used, the Contractor shall analyze samples for the surrogates. An example of a surrogate is trichlorobenzene.

B. Sample Media. The Contractor shall implement analytical methods suitable to the medium of interest. Examples of media include crankcase oil; mineral oil; solvents such as ethylene glycol; soils such as clay, sediment or sand; fly ash; and clinkers.

C. Sampling Kit.

(1) The Contractor shall provide sampling kits (described below) for each demonstration suitable for the collection of samples of various media, but not limited to bulk solids such as soil; and bulk liquids such as fuel oil, solvents and water.

(2) The Contractor shall provide a sampling kit suitable for the collection and analysis of samples from porous surfaces (concrete, paint) and non-porous surfaces (metal).

D. For thermal technologies including incineration, the Contractor may be requested by the WAM to observe the collection of samples from various process streams and obtain split samples for analysis by the Contractor.

E. The Contractor may be requested to provide personnel with appropriate experience and appropriate certificates to take the samples for any of the technologies and any of the media.

F. The Contractor shall submit a preliminary analysis to the WAM for review and comment. Upon receipt of the comments the Contractor shall incorporate the comments into the final report.

Task 4. PCB Disposal and Decontamination Demonstration Requiring Review of Sampling Protocols

A. For thermal technologies including incineration, the Contractor may be requested by the WAM to review the applicant's demonstration trial burn plan, to determine/plan the work schedule. Contractor should already be familiar with the process and equipment, from previous work with identical incinerator equipment.

B. For thermal technologies including incineration, the Contractor may be requested to determine if the applicants' stack emission sampling protocols to be used during the trial burn comply with EPA standards.

Task 5. Sampling Kit for PCB Disposal and Decontamination Demonstrations

The Contractor shall provide, at the direction of the WAM, a sampling kit for EPA PCB Disposal or Decontamination technology evaluators. Sampling items are to be shipped in a cooler ranging in size from one (1) gallon to ten (10) gallons, as appropriate. Packing material must be provided and used as appropriate to minimize breakage of items.

At minimum, the following items shall be provided in the shipping cooler:

- A. Traceability Log Forms (3 sheets minimum)
- B. Quadruplicated bar codes in self-adhering format (3 sheets - 15 codes minimum per sheet). Traceability forms must accommodate bar codes and sample description.
- C. Labels for sample containers to identify samples.
- D. Disposable gloves (12 pairs minimum)
- E. Wide mouth 100 ml. sampling jars, or 40 ml. vials "VOC" sampling type, or a mixture of jars and vials as specified by WAM.
- F. Spatulas, two medium size, metal
- G. One fine tip marker, waterproof
- H. Two writing pens, ball point or fine felt tip
- I. "Blue ice" or chemical ice pack for sample preservation
- J. Evidence tape, 2 feet in length
- K. Shipping bill or air bill prepared for shipping samples to Contractor on overnight basis
- L. "Zip locking" plastic bag to protect documents
- M. Extra sampling containers in case of breakage or process anomaly
- N. Paper towels, e.g. "Kimwipes"

Blind QA audit samples shall be prepared to evaluate laboratory(s) designated by applicants to analyze samples for the demonstration or for commercial operations. The audit sample(s) may be prepared using various media such as sand, oil or water. Optional items below, which are required at times, specified by the WAM, for specific projects.

- O. One-liter jars for aqueous samples, quantity to be specified.
- P. Wipe Sampling Kit:
 - (1) Folded cotton gauze pad (e.g. 4"x4"), inserted in 100 ml wide mouth jar
 - (2) Gauze pad saturated with solvent (e.g. hexane)
 - (3) Template for wiping 100 centimeter square area or as specified
 - (4) Template disposal or reusable, as specified
 - (5) Quantity to be specified by WAM
 - (6) Solvent to be specified by WAM
- Q. Spoon or other instruments for sampling

Task 6. Further Development of Document on PCB Cleanup and Disposal Approval Applications

Further develop and update a document entitled "Guidelines for Approval Applications and Demonstration Test Plans for PCB Disposal by Non-Thermal Alternative Methods, Thermal Alternative Methods, and Incineration."

The Contractor shall develop a final document which may be distributed to persons desiring a PCB Disposal Approval. The Contractor shall incorporate comments from Regional Offices and Headquarters on the draft documents, as directed by the WAM.

Task 7. Develop documents on PCB Cleanup and Disposal.

As directed by the WAM, the Contractor shall develop documents which may be distributed to persons desiring PCB cleanup or disposal approvals. The contractor shall prepare a draft of the document. The Contractor shall incorporate comments from Regional Offices and Headquarters into the draft document, as directed by the WAM.

III. Deliverables:

Task 1. Within 30 days of issuance of contract, the Contractor shall submit a Work Plan for review and acceptance.

Task 2. Within 30 days of issuance, the Contractor shall submit a QA/QC Plan for review and acceptance.

Task 3. Results. Within two weeks of receipt of samples unless otherwise approved by the WAM, Contractor shall submit raw data of the sample chemical analysis. These raw data shall be transmitted in the form of a phone call or email as directed by the WAM. Within three weeks of the receipt of the samples the Contractor shall provide a draft digital report of the chemical analysis. When the Government provides comments on the draft digital report the Contractor shall produce a final report within 30 days of the receipt of the Government's comments. The final report shall be in pdf or other format (.doc) as specified by the WAM.

Task 4. Within 20 days of receipt of a copy of the permit applicant demonstration plan, the Contractor will review and submit a summary report of the demonstration plan.

Task 5. Within 7 days of request by the WAM, the Contractor will ship a sampling kit to the demonstration site for use by EPA or its representative.

Task 6. Within 30 days of receiving the draft document to be developed, the Contractor shall give a draft for EPA review, both hard copy and electronic copy. Upon receipt of comments from the WAM, the Contractor shall incorporate those comments within 30 days. After the WAM specifies that no further comments are forthcoming, the Contractor shall submit a final document in Microsoft Word format or other format as specified by the WAM.

Task 7. Within 30 days of receiving direction from the WAM to develop and update the document, the Contractor shall give a draft for review, both hard copy and electronic copy. Upon receipt of comments from the WAM, the Contractor shall incorporate those comments within 30 days. After the WAM specifies that no further comments are forthcoming, the Contractor shall submit a final document in Microsoft Word format or other format as specified by the WAM.

A Work Plan is required.

EPA will approve the work plan within 45 days.

A QA/QC plan is required

CBI does apply.

This work assignment relates to "Task 3. Sample Collection and Analysis" and "Task 4. PCB Disposal and Decontamination Demonstrations Requiring Review of Sampling Protocols" of the current Statement of Work (SOW) of the contract.

The contractor's performance shall be judged by 1) timeliness in meeting the four week deadline for submission and 2) completeness by including all the required QAP elements. See section on Performance Measures below.

Performance Measures:

The government shall review the promptness of submitting the Field Study QAP as required in this WA. If the contractor is late by more than 14 calendar days, from the due date specified in the WA, on the QAP, the government shall take a 10% reduction in the fee associated with the QAP. The reduction shall be applied to all fees, both the paid fee and unpaid fee.

The government shall review the completeness of the QAP as required in this WA. If the contractor's QAP is missing one or more of the required elements, as listed in the WA, the government shall take a 10% reduction in the fee associated with this WA. The reduction will be applied to all fees, both the paid fee and the unpaid fee.

The government shall review the results of the physical testing as required in the Tasks of this WA. If the contractor has failed to perform the physical testing in accordance with the latest approved QAP for that element, the government shall take a 30% reduction in the fee associated with that work. The reduction will be applied to all fees, both the paid fee and the unpaid fee.

IV. Period of Performance:

This work assignment will start on the date of the contracting officer's signature and extend through June 2, 2010.

V. Level of Effort:

This work assignment shall require 310 professional hours.

VI. EPA Contact:

Work Assignment Manager:

Winston Lue
Mail Code 5303P
1200 Pennsylvania Ave NW
Washington, DC 20460
Phone: (703)305-1617
Fax: (703)308-8638

Courier Service Address:
Potomac Yard North
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Room N-6331
Arlington, VA 22202

Deputy Work Assignment Manager:

Amy Hensley
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Courier Service Address:
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United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-6

Work Assignment

☐ Original ☒ Amendment Number 8

Title of Work Assignment

"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated 15 April 2010, at a cost of \$66,475.00. Currently, there are 3,766 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$344,215.00	3,691
This Action	\$66,475.00	75
Total	\$410,690.00	3,766

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee: \$66,475.00	LOE: 75
Cumulative Approved:	Cost/Fee: \$410,690.00	LOE: 3,766

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number (202) 565-2650

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0008

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 05/17/10

Mail Code: 3803R
Phone Number: (202) 564-9706
Fax Number: (202) 565-2560
E-Mail Address: bushta.dennisjames@epa.gov

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
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Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number: (202) 565-2650
E-Mail Address: edwards.christine@epa.gov

WA Totals

The following item(s) have been modified:

Category	POP	From	By	To
Estimated Cost	Base Pd.	\$(b)(4)		
Fixed Fee	Base Pd.			

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 3691 to 3766.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-

☐ Original ☒ Amendment Number: 7

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance
From: 06/30/09 To: 06/22/10

Comments:

The purpose of this amendment is to increase the LOE and cost based on the November 9, 2009 Work Plan. A revised Financial Work Plan will be required.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$344,215.00	3,101
This Action	\$0.00	590
Total	\$344,215.00	3,691

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE:590
Cumulative Approved:	Cost/Fee:\$344,215.00	LOE:3,691

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

Branch/Mail Code MS 208
Phone Number (513) 569-7285
Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T
Phone Number (202) 566-0501
Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code
Phone Number
Fax Number

Contracting Official Name

DENNIS J. BUSHTA

(Signature)

(Date)

Branch/Mail Code 3803R
Phone Number (202) 564-9706
Fax Number (202) 565-2560

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0007

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
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ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
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1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 04/08/10

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

Attachments

The following item(s) have been added:

Attachment Name

Revised SOW for Amd. 7/dated 04/09/10

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 3101 to 3691.

Contract Number: EP-W-09-024

Work Assignment 0-06, Modification No. 7

Title: Performance Based Work Assignment for Verifying the Performance Characteristics of Qualitative Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)

The cost estimate submitted with the November 4, 2009 Work Plan for WA 0-06 was based on an average sample/test time of up to 10 minutes and estimated renovator costs.

Due to kit variability, the actual amount of time that it took to obtain a single measurement from the different kits (e.g., the sample/test time) ranged between 15 to 30 minutes. Per this modification, the contractor shall submit a revised cost estimate and work plan that better reflects actual costs to complete verification of the four kits.

An amended work plan and cost estimate will be due five (5) days from the issuance of this amended work assignment (WA).

All other requirements found in WA 0-06, Modification 6 and the associated work plan (approved on 11/4/2009) and subsequent modification shall remain unchanged. **Work already completed under WA 4-16 contract number EP-W-04-021 and work started under this WA 0-06 contract number EPW09024 shall not be duplicated.**

Level of Effort: An additional 590 hours is to be added under this amendment. The contractor shall inform the EPA WAM when 75% of the level of effort has been expended.

Work Assignment Manager:

Julius M. Enriquez
513-569-7285 (phone)
513-569-7158 (fax)
enriquez.julius@epa.gov

Deputy Work Assignment Manager:

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United States Environmental Protection Agency
Washington, DC 20460

Assignment Number

Work Assignment

☐ Original ☒ Amendment Number: 6Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment approves the Technical Work Plan dated 05 March 2010. There is no change
in cost or Professional Labor Hours.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$344,215.00	3,101
This Action	\$0.00	0
Total	\$344,215.00	3,101

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 03/05/10	Cost/Fee:	LOE:
Cumulative Approved: 03/23/10	Cost/Fee: \$344,215.00	LOE: 3,101

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date



United States Environmental Protection Agency
Washington, DC 20460

Assignment Number

Work Assignment

☐ Original ☒ Amendment Number: 5

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance
From: 06/30/09 To: 06/22/10

Comments:

This amendment approves the submittal of a summary data report for up to 4 kits (see amendment #4). No additional cost is required.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FY (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$344,215.00	3,101
This Action	\$0.00	0
Total	\$344,215.00	3,101

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE:
Cumulative Approved: 02/17/10	Cost/Fee: \$344,215.00	LOE: 3,101

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

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Phone Number (513) 569-7285

Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

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Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

· "Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0005

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

Attachments

The following item(s) have been modified:

Document "Spot Test Kits for Lead in Paint for Environmental Technology Verification" was modified.

The following item(s) have been added:

Attachment Name

Revised SOW for amd. #5

Revised SOW for am #5

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 005

Contract Number: EPW09024

Work Assignment 0-06, Modification No. 4

Title: Performance Based Work Assignment for Verifying the Performance Characteristics of Qualitative Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)

Per this modification, Task 6 of the Statement of Work (SOW) submitted 09/09/2009 is amended to include the submittal of a summary data report containing quality assured verification test results for up to four kits to EPA by April 15, 2010. Depending on how the tests will be conducted, results may be sent in batches similar to how the PEM reference results were submitted. This report was identified as a deliverable in the statement of work submitted on 09/09/2009 but was not included as a in the technical work plan approved by 11/04/2009. This modification will be implemented at no cost to EPA.

An amended work plan with a schedule containing this deliverable will be due 05 days from the issuance of this amended work assignment (WA).

All other requirements found in WA 0-06, Modification 3 and the associated work plan (approved on 11/4/2009) shall remain unchanged. Work already completed under WA 4-16 contract number EP-W-04-021 and work started under this WA 0-06 contract number EPW09024 shall not be duplicated.

Level of Effort: No additional hours are added under this amendment.

Work Assignment Manager

Julius M. Enriquez

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enriquez.julius@epa.gov

Deputy Work Assignment Manager

Evelyn Hartzell

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United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-06

Work Assignment

☐ Original ☒ Amendment Number: 4

Contract Number
EP-W-09-024

Contract Period
Base ☒

Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Contractor
BATTTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment approves the revised Technical and Financial Work Plan dated 04 November 2009, at a cost of \$344,215.00. Currently, there are 3,101 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	2,305
This Action	\$344,215.00	796
Total	\$344,215.00	3,101

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 11/04/09	Cost/Fee: \$344,215.00	LOE: 796
Cumulative Approved:	Cost/Fee: \$344,215.00	LOE: 3,101

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0004

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 2305 to 3101.

United States Environmental Protection Agency
Washington, DC 20460

Assignment Number

Work Assignment

☐ Original ☒ Amendment Number: 3Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment rejects the Work Plan dated 30 September 2009, at a cost of \$477,572.00.
Please see the attached comments regarding the Work Plan revisions. A revised Work Plan
is required.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	2,305
This Action	\$0.00	0
Total	\$0.00	2,305

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE:
Cumulative Approved:	Cost/Fee: \$0.00	LOE: 2,305

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

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(Signature)

(Date)

Other Agency Official Name

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Phone Number

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(Date)

Contracting Official Name

CHRISTINE EDWARDS

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Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0003

Summary Information

Title: "Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09 To: 06/22/10
Award Date: 06/30/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
1200 PENNSYLVANIA AVE, NW
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Date Role Ended: 10/25/09

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Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

Attachments

The following item(s) have been added:

Attachment Name

"Revisions required to Work Plan dated 30 September 2009"

"Revisions required Work Plan dated 30 September 2009"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0003

The following revisions are required before the Work Plan can be approved:

- a) The cost for this project shall not exceed the ceiling of \$350,000.
- b) To allow for a near real-time understanding of testing costs, the contractor shall include information in the monthly report regarding resources (i.e., LOE, time, and funding) spent during that reporting period testing each kit. Informal communications regarding this matter may also occur over the course of the project, in support of EPA project management duties.
- c) Quality Assurance:

The current work plan states that the contractor's quality staff will perform an internal TSA of the project within one month of the beginning of the testing. Depending on how the testing of the kits is set up, the contractor may need to do an internal audit earlier than one month of the start of testing. EPA recommends that the contractor's TSA be done shortly after testing has started so that the contractor is able to initiate appropriate corrective actions early in the testing process. Also, per discussions between the contractor and the EPA PM, since EPA quality staff intend to perform a TSA of the subcontract laboratory, there is no need for the contractor to perform a TSA of the subcontract laboratory.

The contractor did not mention in the current proposal that preliminary TSA and ADQ reports will be sent to EPA. Per direction submitted to the contractor when the previous work plan was disapproved by EPA on 08/14/2009, preliminary verification testing audit reports (TSA, ADQ) will need to be submitted to EPA within 10 days of conducting the audit. A preliminary audit report may not contain completed corrective actions, but shall include findings, observations, and a copy of the blank checklist used to conduct the audit as applicable. Final audit reports will be posted to the ETV database by the VO and will include a completed corrective actions or results report, as appropriate. An updated schedule reflecting these deliverables shall be provided.

- d) Task 6 Reporting contains an incorrect statement. Text in Task 6 should be modified to indicate "false positive rates will be assessed on panels with lead levels at 0.6 mg/cm² and lower, and false negative rates will be assessed on panels with lead levels at 1.4 mg/cm² and greater". This change also impacts the T/QAP.
- e) The contractor's financial work plan includes costs associated with the partial development of a second group of PEMs for testing and the decontamination of the contractors laboratory following the completion of PEM production. (Note: The contractor was tasked with producing PEMs that could be used to test up to nine kits under WA 4-16, contract EP-W-04-021. In EPA's initial SOW for WA 0-06, the contractor was tasked with developing an additional six sets of PEMs, enough to test 5 additional kits and keep one set as a backup. The additional six sets of PEMs is the "second group of PEMs" mentioned the previous and subsequent sentences.) This second group of PEMs was identified in the initial SOW provided to the contractor on 05/29/2009, but were removed from the work assignment by EPA in the amendment send to the contractor on 09/03/2009. The contractor started partial production of this second group of PEMs

"Revisions required to Work Plan dated 30 September 2009"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0003

before EPA initiated a stop work on their production. As a result, some costs were incurred between the initial SOW and the amendment that are associated with this second group of PEMs. The majority of these costs have already been billed to EPA as part of the performance of this work assignment.

States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☐ Original ☒ Amendment Number: 2Contract Number
EP-W-09-024Contract Period
Base ☒ Option Period NumberTitle of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan ApprovalPeriods of Performance
From: 06/30/09 To: 06/22/10

Comments:

This amendment only supports the development of the two sets of PEMs that were not completed in the previous WA, and testing shall support no more than six test kits. Please see the attached revised Statement of Work for detailed information. This amendment reduces the amount of Professional Labor hours to 2,305.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	4,070
This Action	\$0.00	(1,765)
Total	\$0.00	2,305

Work Plan / Cost Estimate Approvals

Contractor WP Dated :	Cost/Fee:	LOE:
Cumulative Approved:	Cost/Fee: \$0.00	LOE: 2,305

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

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Phone Number (513) 569-7285

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(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

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(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

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Fax Number (202) 565-2560

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0002

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date: 06/30/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: CHRISTINE EDWARDS
1200 PENNSYLVANIA AVE, NW
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Date Role Ended: 09/09/09

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Phone Number: (202) 564-2182
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E-Mail Address: edwards.christine@epa.gov

The following item(s) have been added:

ADMINISTRATIVE CONTRACTING OFFICER:

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E-Mail Address: bushta.dennisjames@epa.gov

Attachments

The following item(s) have been added:

Attachment Name

Revised SOW - Amendment #2

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 4070 to 2305.

Contract Number: EPW09024

Work Assignment Number: 0-06

Amendment: 01

This is an amendment to a WA that was submitted 05/29/09. The major revision of this WA is the stop work on the development of the additional panels for testing up to 13 kits. Instead this WA is asking for the development of the 2 sets of PEMs that were not finished in the previous WA; WA 4-16 contract EP-W-04-021. This WA (0-06) is also being amended to verify only up to six test kits as opposed to 13 test kits. Work already completed under WA 4-16 contract number EP-W-04-021 and work started under this WA 0-06 contract number EPW09024 shall not be duplicated.

Title: Performance Based Work Assignment for Verifying the Performance Characteristics of Qualitative Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)

Background:

The accurate and efficient identification of lead-based paint in housing is important to the Federal government and to private individuals living in residences containing such paints, especially when renovation, repair or painting work is planned. Renovation, repair and painting (RRP) may disturb painted surfaces and produce a lead exposure hazard. According to a recent report by the President's Task Force on Environmental Health Risks and Safety Risks to Children, approximately 24 million U.S. dwellings were at risk for lead-based paint hazards in 1999 (1). The term lead-based paint means paint or other surface coatings that contain lead at contents that "equal or exceed a level of 1.0 milligram per centimeter squared or 0.5 percent by weight"

EPA issued a final rule called the Lead, Renovation, Repair, and Painting Program rule last April 22, 2008 (<http://www.epa.gov/fedrgstr/EPA-TOX/2008/April/Day-22/t8141.pdf>). The rule was issued to address lead-based paint hazards created by renovation, repair, and painting activities that disturb lead-based paint in target housing and child-occupied facilities. The rule mentions the development of an improved test kit for paint that has a false negative rate of no more than 5% and a false positive rate of no more than 10% vis-à-vis the federal standards for lead-based paint. Under this rule the EPA evaluation and recognition program for test kits, initially for kits that are candidates to meet the goal of a 5% false negative rate, and then for kits that are candidates to meet the joint goals of a 5% false negative rate and a 10% false positive rate are mentioned.

The current rule on p 21713 states that test kit performance would have to be "validated by a laboratory independent of the kit manufacturer, using ASTM International's E1828, Standard Practice for Evaluating the Performance Characteristics of Qualitative Chemical Spot Test Kits for Lead in Paint (Ref. 28) or an equivalent validation method. The instruction for use of any

particular kit would have to conform to the results of the validation, and the certified renovator must follow the manufacturer's instructions when using the kit." Some of the main features of the ASTM document will be used for the evaluation testing of these kits and EPA will only recognize kits that have been properly validated by a laboratory independent of the kit manufacturer.

The rule also states on page 21713 that with respect to the improved test kits, EPA has determined that Environmental Technology Verification Program (ETV) is a suitable vehicle for obtaining independent laboratory validation of test kit performance. EPA intends to use ETV or an equivalent testing program approved by EPA for the test kit recognition process. EPA's Environmental Technology Verification (ETV) Program develops testing protocols/plans and verifies the performance of innovative technologies that have the potential to improve protection of human health and the environment. ETV was created to accelerate the entrance of new environmental technologies into the domestic and international marketplace. Market input is conveyed by the active involvement of stakeholder groups consisting of technology buyers, sellers, permittees, consultants, financiers, exporters and others within each sector. Further, verification is open to all vendors of commercial-ready environmental technologies in a given category of interest to ETV. ETV verifies agency priorities, like the determination of lead in paint test kits performance, under the Environmental and Sustainable Technology Evaluations (ESTE) portion of the ETV program.

ETV has developed three documents to help guide program operation and ensure program credibility and consistency. The first document is the ETV Quality Management Plan (QMP). This is a program management document used by ETV to guide its operation. The ETV QMP explains in detail the quality assurance policies and procedures, including the development of center-specific QMPs by the verification organizations (VOs), in the case of the Environmental and Sustainable Technology Evaluation projects like this one, test/QA plans that contain or references quality management system documentation that meets ETV standards. The second is the ETV Program Policy Compendium, which defines the operating policies developed to encourage consistency among the ETV centers. The third document is the draft ETV Guidelines for Proper Use of the ETV Name and Logo (EPA 2007). This document contains the policy and procedures for using the ETV name, logo, or verified data.

Statement of Work

The Qualitative Spot Test Kit Verification described in this Work Assignment has been divided into six separate tasks. Tasks 1-4 under Phase I of this WA were initiated during the work assignment 4-16 under contract EP-W-04-021, which ended on June 2, 2009. Tasks 5 and 6 under Phase II and III of this WA shall be performed under this follow on work assignment. Activities under Tasks 1, 2, 3 and 4 to be performed under this follow on work assignment are identified in bold under the respective tasks outlined in the SOW submitted on 5-29-09. The majority of the changes associated with this amendment are both bolded and italicized. These activities are not duplicate work. Task description for Phase II and III was part of the technical work plan which is a deliverable for the previous work assignment. The contractor shall comply with the ETV QMP (<http://www.epa.gov/etv/pubs/600r08009.pdf>), Policy Compendium (<http://www.epa.gov/etv/pubs/600r08025.pdf>), and Guidelines for Proper Use of the ETV Name and Logo (<http://www.epa.gov/etv/pubs/600r08029.pdf>) when performing these tasks.

Phase 1 (The majority of task 1 - 4 has been completed in the previous work assignment 4-16. Part of Phase 1 that will continue in this follow on work assignment is emphasized in **bold**)

1. Stakeholder Technical Panel

No change from WA 0-06 SOW submitted on 5-29-09.

2. Development of the Test/Quality Assurance Plan and Verification Protocol

2.1 Development of the Test/Quality Assurance Plan (T/QAP)

No Change from WA 0-06 SOW submitted on 5-29-09.

**3. Development and Production of Performance Evaluation Materials
Amended (in bold)**

The contractor shall develop and produce PEMs to be used to verify the performance of the new spot test kits. The development of these PEMs shall cover a range of different criteria to allow for the verification of the performance of each spot test kit based upon the different methods of detection which each spot test kit uses. The contractor shall develop estimates of the costs and production times for the varying PEMs based upon the following criteria:

- Use of water based paint or "old formula" oil based paint
- Two (2) different speciations of paint. (white lead and lead chromate)
- Four (4) different manufactured substrates, (wood, metal, drywall and plaster).
- Seven (7) levels of lead; which consist of 0.0, 0.3, 0.6, 1.0, 1.4, 2.0 and 6.0 mg/cm².
- Three different colors of paint which will be randomized across other variables.
- A minimum of two (2) overlaying no-lead-based paint.

Actual specifications may vary based on stakeholder and EPA input. Specific concentrations may also vary based on the results of a Homogeneity Study being performed on PEMs under another work assignment. The contractor shall allow EPA technical and quality assurance staff to perform onsite audits, as needed, prior to and during PEM preparation to insure that the quality of the data collected during testing are sufficient for verification.

For the WA 4-16 under EPA contract EP-W-04-021, 4,368 PEMs were supposed to be developed by June 30, 2009. In spite of the contractor's best effort to meet the deadline, there were technical problems that prevented the contractor from finishing two sets PEMs under WA 4-16. The two sets of PEMs that did not get finished were, 1.4 mg/cm² lead chromate (yellow lead) and 1.0 mg/cm² lead carbonate (white lead), which is a total of 648 panels. Under this amendment, the contractor shall produce in the current contract under WA 0-06 the two sets of PEMs that were not finished under WA 4-16. The two sets of PEMs, 1.4 mg/cm² lead chromate (yellow lead) and 1.0 mg/cm² lead carbonate (white lead), will be produced in this contract. The total

number for these two sets of panels is 648 PEMs. The PEMs produced under WA 4-16 and the additional PEMs mentioned above were to be used to test up to nine lead in paint test kits under Phase II, task 5. Under this WA, EPA anticipates that up to six (6) lead in paint test kits may be submitted for verification testing. The two sets of PEMs, 1.4 mg/cm² lead chromate (yellow lead) and 1.0 mg/cm² lead carbonate (white lead), will be developed per the requirements and procedures outlined in the Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program dated Oct 09, 2008 as well as the requirements and procedures from an updated version of this SOP. The updated SOP will include any changes that were implemented in the preparation of the first set of PEMs from the previous contract (EP-W-04-021).

The contractor will send to EPA the CoV and homogeneity results from the different reference panel concentrations, along with a recommendation on whether to proceed to full panel productions or recommendations for correct actions to be taken. EPA will review the data provided by the contractor to see if they agree with the contractor's recommendation. If EPA agrees with the recommendation, they will forward a note contractor stating this. If EPA does not agree with the recommendation, they will forward a note explaining their concerns and request that an alternate recommendation be provided.

The contractor shall allow EPA technical and quality assurance staff to perform onsite audits, as needed, prior to and during PEM preparation to insure that the quality of the data collected during testing are sufficient for verification. The contractor shall require from the subcontractor a complete data package, preferably in electronic form, for all the samples that were analyzed. *Data packages will be forwarded to EPA as received.* The contractor shall perform an ADQ on 10 % of the complete set of data packages. EPA has provided Battelle guidelines on what constitutes a complete data package.

4. Vendor recruitment and coordination

The contractor shall openly solicit for vendors by advertising plans for verification testing of particular technology types on the ETV Web site, via ETV voice, and using external outreach mechanisms (e.g., trade journals, etc.). The contractor shall also be responsible for coordinating with the technology vendors prior to, during, and after verification testing, to ensure the successful completion of the verification effort. The contractor shall provide PEM samples developed under a separate WA by OPPT to all interested vendors as part of vendor recruitment. The contractor shall also ensure that technology vendors are provided with copies of the ETV QMP, Policy Compendium, Guidelines for Proper Use of the ETV Name and Logo, and the information found in Appendix A of this WA. The Language of the solicitation needs to be approved by EPA before posting.

Vendor recruitment and coordination activities, including distributing the preliminary drafts of the T/QAP to interested vendors, shall be continued on an as needed basis during this follow-on work assignment. *Vendors were given up till June 30, 2009 to comment on the preliminary T/QAP.* Contractor shall discuss with the vendors the

Guidelines for Participation in the ETV ESTE Verification Test of Lead Paint Test Kits (Appendix C). Contractor shall also develop vendor agreements with vendors to be tested.

Phase II (this part of the work assignment is being addressed in its entirety under this follow on work assignment)

5. Verification Testing

The Contractor shall conduct the verification testing of paint test kit instruments designed to meet higher standards of accuracy as described in the EPA-approved T/QAP. Test kit verification will be conducted using a variety of painted surfaces. The actual number and types of painted test surfaces shall be determined based on the stakeholder and EPA input and shall be documented in the final T/QAP. Both synthetic painted film strips and real world painted house components (containing (lead based paint) LBP) may be used for verification testing of existing kits. If four or more vendors/manufacturers apply and are ready for ETV testing prior to September 30, 2009, EPA may initiate ETV testing early (before Nov 2009) for those vendors, and then will conduct an additional round of ETV testing in November for vendors that apply later in the year but by the September 30 deadline. For vendors that initiate and successfully perform under the early ETV testing, EPA will recognize their kits prior to September 1, 2010. *Contractor will provide a peer-reviewed and quality-assured summary of data results by March 2010 so that OPPT can start reviewing the data for recognition process.*

ETV anticipates that newly developed test kits, designed to meet higher standards of accuracy (recently defined by EPA under the Lead RRP, published April 22, 2008) shall be tested. **Accuracy criteria have been set at: 1) a false positive rate no more than 10% (when tested at values 0.6 mg/cm² and below), and 2) a false negative rate of no more than 5% (when tested at values 1.4 mg/cm² and above).** After September 1, 2010, EPA OPPT will start recognizing test kits based on their ability to meet these requirements.

The contractor shall allow EPA technical and quality assurance staff to perform onsite audits, as needed, prior to and during verification testing to insure that the quality of the data collected during testing are sufficient for verification. As part of the ETV QMP requirements the contractor shall also conduct their own internal Technical Systems Audit (TSA) within one month of the beginning of testing. The contractor shall require from the subcontractor a complete set of data packages, preferably in electronic form, for all the samples that were analyzed. Copies of electronic data packages will be submitted to EPA upon receipt. The contractor shall perform an ADQ on 10 % of the complete set of data packages. EPA will provide guidelines on what constitute a complete set of data packages and minimum ADQ requirements. The final report and response to these internal audits shall be provided to EPA and downloaded on the ETV web database *by the contractor.*

Phase III

6. Reporting

The Contractor shall prepare a written peer-reviewed and quality-assured verification report (VR) for each test kit technology detailing the verification testing results from the testing. The report must comply with the VR requirements as discussed in the ETV QMP. The observed performance of each kit tested will be described in this verification report. The performance of different test kit technologies will not be ranked. The reports will describe, in addition to each kits' verification performance (accuracy and precision), parameters such as operational factors which include operator observations, ease of use, and sample throughput, waste disposal, volume and type of waste generated from the use of each test kit, toxicity of chemicals used, cost effective use, as well as other metrics that may address the sustainability issue, **specialized training needed, and cost**. The source file and pdf for this report will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

In addition to the verification reports described above, the contractor shall develop a verification statement (VS) for each verified test kit. In ETV the VS is usually a 2-5 page summary of the verification report. It is a requirement that this summary is created for each report. The statement must comply with the VS requirements as discussed in the ETV QMP and shall include accuracy and precision data on each test kit as well as information about operator observations, ease of use, sample throughput, training requirements, and cost. The source file and pdf for this statement will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

Schedule of Milestones and Deliverables

Under this follow on work assignment, EPA will only fund Tasks 5 and 6 and some of the on going efforts (**bold**) which are mentioned in Phase I. Majority of tasks 1, 2, 3, and 4 have been funded under the previous contract and **will not be duplicated** under this follow on work assignment.

A work plan with schedules of deliverables and the verification testing will be due 15 days from the issuance of this follow on work assignment (WA). *Relevant OPPT Schedules are provided in Appendix B.*

The Contractor shall submit monthly progress reports preferably by email that shall contain, at a minimum, the progress on each task, the costs to date, the reason for any deviations from the project schedule, and a planned expenditure rates for Tasks 5 and 6 and some of the ongoing efforts.

When a stakeholder meeting is held minutes are due to EPA within three (3) weeks of each meeting. The source file and pdf for the minutes will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

List of Vendors who have signed in to participate in the ETV testing of the test kits and copies of the vendor's contract agreement will be provided *within five (5) days after the*

vendor/s have signed the agreement.

Standard operating procedure (SOP) for the development of the ETV PEMs. An updated SOP will be submitted one (1) week from the issuance of this WA. This SOP shall address all the changes that were needed in preparing the first set of PEMs.

The preliminary draft T/QAP which has been reviewed by participating vendors will be due 15 days after the vendors have provided their comments on the T/QAP. As part of the previous work assignment the preliminary draft T/QAP should have been reviewed by the EPA QA and WAM, Contractor QA and PO and will only be reviewed for the vendors' comments. Since this T/QAP should have also been peer reviewed by independent experts, as well as some stakeholders, there may be a need to obtain the independent experts and stakeholders comments on any major changes to the T/QAP as a result of the vendor's review. EPA will only review the vendors' comments and any changes as a result of these comments. EPA will send the reviewed T/QAP to the contractor within two weeks after receipt from the contractor. A final TQAP which is signed by the Contractor QA and PO will be due one week after receipt by the Contractor of the EPA reviewed T/QAP for vendors' comments.

If the vendors do not have any comments or changes, then a final TQAP which is signed by the Contractor QA and PO will be due one week after the deadline for vendor's comments.

A T/QAP which has been reviewed by EPA, the stakeholders and the vendors should be available for final review and approval. All quality assurance and related measurement issues will be addressed in this deliverable, including sustainability metrics for wastes, cost, etc. Results of CoV and homogeneity testing for the PEMs shall be included in an appendix to the T/QAP. The updated Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program shall also be included in the appendix. A validated SOP will be produced detailing how to sample paint from each substrate for the reference analysis during the ETV test. This SOP will be included as an addendum to the test/QA plan (TQAP). Stakeholder input shall be obtained, as needed, when developing the SOP for sampling paint from the performance evaluation materials (PEMs). This TQ/AP will be submitted no later than September 30, 2009.

The two sets of PEMs, 1.4 mg/cm² lead chromate (yellow lead) and 1.0 mg/cm² lead carbonate (white lead), will be produced in this contract. The total number for these two sets of panels is 648 PEMs. The completed PEMs are due by September 30, 2009. These PEMs will be developed per the requirements and procedures outlined in the Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program dated Oct 09, 2008 as well as the requirements and procedures from an updated version of this SOP. The contractor shall require from the subcontractor a complete data package, preferably in electronic form, for all the samples that were analyzed. Data packages will be forwarded to EPA as received. The contractor shall perform an ADQ on 10 % of the complete set of data packages. EPA has provided Battelle guidelines on what constitutes a complete data package.

Summary of lead test kits verification results which have been peer-reviewed and quality-assured will be submitted by April 2010. Depending on how the tests will be conducted, results

may be sent in batches similar to how the PEM reference results were submitted. See OPPT Schedules on Appendix B.

A copy of the final internal audit reports (TSA, ADQ) and response on the verification testing will be due six (6) weeks after completion of the verification testing. The TSA of verification testing activities will be conducted within the first month of testing and the preliminary TSA report on the verification testing shall be submitted to EPA within six (6) weeks of the beginning of verification testing. An ADQ will be conducted by the Battelle Quality Manager on the data set(s) received for the first verification(s) test(s) equal to 10% of the total number of samples submitted for the verification testing within three (3) weeks of receipt of data packages from the laboratory. The preliminary ADQ reports will be submitted to EPA within five (5) weeks of receipt of the data packages from the laboratory. Preliminary audit reports may not contain completed corrective actions, but shall include findings, observations, and a copy of the blank checklist used to conduct the audit. Final audit reports shall be posted to the ETV database by the VO and will include a completed corrective actions or results report, as appropriate. EPA Technical Lead person will be notified as soon as possible by email of findings determined during the TSA or ADQ that significantly impact the quality of data or data collection.

Draft Verification Reports will be due twelve (12) weeks after completion of the verification testing. *Verification testing is expected to end by March 30, 2010*

Completed verification reports and statements will be due to EPA WAM no later than sixteen (16) weeks from the completion of the verification testing. *Verification Testing is expected to end by March 30, 2010.* Verification reports and statements should comply with the requirements specified in the ETV QMP. Verification reports and statements must be 508 compliant.

Both parties shall communicate regularly throughout the testing and evaluation process. The Contractor shall obtain COR concurrence on all decisions affecting cost and delivery schedules.

Performance measures:

The government shall review the completeness of the T/QAP which will be reviewed by the vendors, preparation of the PEMS which are within specs as outlined in the updated PEM SOP, minutes of the meeting with the vendors, the internal audit reports and responses, the verification reports and statements, and promptness of submitting these deliverables as required in this work assignment. If the contractor is late by more than 14 calendar days, from the due date specified in the work assignment, the government shall take a 10% reduction in the fee associated with the development of the final T/QAP and additional PEMS, development of the verification reports and statements for this verification testing, that is, the fee associated with the development of these deliverables for this amended work assignment. The reduction shall be applied to all fees, both the paid fee and the unpaid fee.

Period of Performance: From the date of the Contracting Officer's signature to June 2, 2010.

Level of Effort: A total of 2305 hours are not to be exceeded for completion of Tasks 5 and 6 and some of the on going efforts from Phase 1. The contractor shall inform the EPA WAM when 75% of the level of effort has been expended.

Work Assignment Manager

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Deputy Work Assignment Manager

Evelyn Hartzell
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Appendix A

The contractor shall ensure that technology vendors are provided with copies of the ETV QMP, Policy Compendium, Guidelines for Proper Use of the ETV Name and Logo, and the following information:

- Verification testing shall be conducted in accordance with the approved ETV test/QA plan which will be posted on the EPA ETV Web site. Vendors will be provided an opportunity to review and comment on this plan before the test/QA plan is approved by EPA and testing commences.
- Testing shall occur at a predetermined test date(s) and location(s), agreed to by the vendor(s), contractor, and EPA. The test date and location shall not be changed without obtaining agreement from all parties.
- Once verification testing is initiated, it shall be completed in its entirety and the results of the testing shall be published by EPA in a verification report which EPA will post on the EPA ETV Web Site (www.epa.gov/etv). Typically a verification statement is also produced and posted on the EPA ETV Web Site, although a vendor can send a request in writing to the EPA ESTE project manager requesting not to have a verification statement prepared. Vendors will be provided an opportunity to review and comment on the verification report and statement before they are finalized by EPA.
- Verification test data provided to vendors prior to the publication of the verification report may only be used by a vendor if the vendor notes that the data have not been finalized by EPA.
- The vendor will need to assign a technical point of contact for the verification and provide, at no cost to EPA or the contractor, a unit(s) of the technology to be tested, equipment and materials needed to operate the technology during testing, and written descriptions and diagrams of the technology. The vendor assumes all responsibility for any loss or damage of any kind to the technology and any equipment provided by the vendor for verification testing.
- ETV does not endorse, approve, or certify for use any technology that it verifies. Under no circumstances shall the ETV Name or Logo be used in a manner that would imply EPA endorsement, approval, certification, guarantee, or warrantee of the company, its products, its technologies, or its services. Vendors interested in using the ETV name or logo shall need to send a letter to the EPA ESTE project manager stating that they have read and will abide by ETV's name and logo use policy. A copy of the logo use policy is posted on the ETV Web Site at www.epa.gov/etv. If EPA or its ETV VOs discover that ETV verification is being misrepresented, the verification will be revoked if necessary. Failure by a developer/vendor or their representative(s) (e.g., licensed distributor, foreign subsidiary, contractor, advertisement agency, etc.) to make the required correction(s) may result in removal of the developer's/vendor's verification report and statement from the ETV Web Site and revocation of the verification report and statement.

- When supplying information to EPA or its contractor, the vendor is responsible for identifying information that it believes is entitled to confidential treatment for reasons of business confidentiality in accordance with the Agency's regulations at 40 C.F.R. Part 2, Subpart B. The vendor will clearly identify confidential information disclosed to EPA and its contractor in writing and clearly memorialize in writing, within a reasonable time, any confidential information initially disclosed orally. EPA will not disclose, copy, reproduce or otherwise make available in any form information designated as confidential information without the consent of the vendor, except as such information may be subject to disclosure under the Freedom of Information Act (5 U.S.C. § 552), and EPA's regulations at 40 C.F.R. Part 2, or as otherwise authorized by law. Clauses have been included within EPA's contract with its contractor addressing the treatment of confidential information.
- With the exception of confidential information (see previous bullet for information on identifying confidential information and how this information will be treated by EPA and its contractor), ultimately all other procedures, data, results, reports, and statements, developed or generated during the verification process for a vendor's technology may be made available to the public.

Appendix B

Relevant OPPT Schedules

Vendors review Test Quality Assurance Protocol(T/QAP)	* May 1 – June 15, 2009
ETV application period ends for kits	September 30, 2009
Manufacturer/Vendor signs agreement and submits kits for ETV testing	September/October 2009
ETV Testing of kits begins	November 2009
ETV Testing of kits ends	February/March 2010
Recognitions of new kits announced (see Note ¹)	September 1, 2010

¹ Note: If four or more vendors/manufacturers apply and are ready for ETV testing prior to September 30, 2009, EPA may initiate ETV testing early (July-August time frame) for those vendors, and then will conduct an additional round of ETV testing in November for vendors that apply later in the year but by the September 30 deadline. For vendors that initiate and successfully perform under the early ETV testing, EPA will recognize their kits prior to September 1, 2010.

* This refers to all prospective vendors, whether they have a ready test kit or not, who may be interested in having their kits recognized under Phase 2. T/QAP will be finalized after June 15 and will be used in the subsequent verification testing of the lead test kits.

Appendix C

Guidelines for Participation in the ETV ESTE Verification Test of Lead Paint Test Kits

The following guidelines have been set to establish the eligibility of individual test kits for participation in the ETV ESTE verification test of lead paint test kits. Test kits must conform to the following guidelines to participate in the verification test. Test kits that cannot meet these guidelines will not be evaluated as part of the ETV verification test of lead paint test kits. Testing is scheduled to start by November 2009. Questions or concerns about these guidelines should be directed to Stephanie Buehler, at (614) 424-3972 or buehlers@battelle.org.

1. All participating test kits must be commercially ready or commercially available. The following are meant to be guidance for determining this requirement:
 - Test kits must be commercially available for purchase either at the time of application for testing or at the time the verification report is final (signed). ETV plans to finalize verifications and post the ETV reports and statements as early as April 2010 on the ETV website.
 - Marketing materials (e.g., websites, brochures) should be available or clearly in development to demonstrate the test kit and its availability.
 - Vendors should provide a production plan, marketing plan, and financial plan when applying for testing of a test kit. Drafts of these plans are acceptable for submission. Five to ten pages for these plans are sufficient. Submission of a plan demonstrates that steps have been taken to determine how the test kit will be manufactured for end users, how the test kit will be marketed and commercialized, and how these activities will be supported financially.
2. A test kit must be submitted in its final form. Testing results apply to the test kit tested. Results will not be applicable to modified test kits.

Though test kit packaging may change, the operation and chemistry of the test kit must remain the same as was submitted to the ETV test. Although the ETV Program has no legal right to require re-testing of a vendor's kit, the ETV Program reserves the right to announce when it believes a verification report or statement no longer represents the kit that is being marketed. The ETV Name and Logo may not be associated with test kits for which performance data have not been verified under EPA ETV. Improper use of the ETV Name, Logo, and test results could result in the revocation of the verification report and statement. Please consult the Environmental Technology Verification Program, Policy Compendium and the U.S. EPA Environmental Technology Verification Program (ETV) Guidelines for Proper Use of the ETV Name and Logo (PDF) which is located at <http://www.epa.gov/nrmrl/std/etv/publications.html#programdoc>
3. Results from the ETV ESTE verification test for each participating test kit will be submitted by the ETV Program to OPPT for consideration of recognition under the Lead Renovation, Repair Painting (RRP) Rule. Test kit acceptance under the RRP Rule will not be determined by ETV. OPPT will determine which test kits will be accepted under the Rule based on criteria set by OPPT and will list the recognized test kits on their website. OPPT will also provide the link to ETV verification reports and statements for all participating vendors, regardless of recognition outcome.
4. EPA will fund up to six test kits. In the future, there may be additional funding available. Test kits will be tested on a first come first serve basis, provided criteria for commercial readiness are met.

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-06

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Title of Work Assignment

"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose:

☐ Work Assignment Initiation☐ Work Assignment Close-Out☒ Work Assignment Amendment☐ Incremental Funding☐ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

This amendment increases the LOE to 4070 professional hours. A revised Financial Work
Plan is required.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:

Cost/Fee

LOE

Previously Approved

\$0.00

2,470

This Action

\$0.00

1,600

Total

\$0.00

4,070

Work Plan / Cost Estimate Approvals

Contractor WP Dated:

Cost/Fee:

LOE: 1,600

Cumulative Approved:

Cost/Fee: \$0.00

LOE: 4,070

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06, Amendment: 0001

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"

Period of Performance: From: 06/30/09
To: 06/22/10

Award Date: 06/30/09

Total Funding:

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 2470 to 4070.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-

☒ Original ☐ Amendment Number:

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"Spot Test Kits for Lead in Paint for
Environmental Technology Verification
(ETV)"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 06/30/09

To: 06/22/10

Comments:

Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE
Previously Approved

This Action

Total \$0.00 2,470

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 2,470

Work Assignment Manager Name

JULIUS M. ENRIQUEZ

(Signature)

(Date)

Branch/Mail Code MS 208

Phone Number (513) 569-7285

Fax Number (513) 569-7158

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

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Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)"

Contract: EP-W-09-024, Work Assignment: 0-06

Summary Information

Title: "Spot Test Kits for Lead in Paint for
Environmental Technology Verification (ETV)"
Period of Performance: From: 06/30/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: JULIUS M. ENRIQUEZ
26 W MARTIN LUTHER KING
DRIVE
CINCINNATI, OH 45268
Mail Code: MS 208
Phone Number: (513) 569-7285
Fax Number: (513) 569-7158
E-Mail Address: enriquez.julius@epa.gov

Attachments

Attachment Name

"Spot Test Kits for Lead in Paint for Environmental Technology
Verification"

Contract Number: EPW09024

Work Assignment Number: 0-06

This is a continuation of WA 4-16 under contract EP-W-04-021. Work already completed under this work assignment shall not be duplicated.

Title: Performance Based Work Assignment for Verifying the Performance Characteristics of Qualitative Spot Test Kits for Lead in Paint for Environmental Technology Verification (ETV)

Background:

The accurate and efficient identification of lead-based paint in housing is important to the Federal government and to private individuals living in residences containing such paints, especially when renovation, repair or painting work is planned. Renovation, repair and painting (RRP) may disturb painted surfaces and produce a lead exposure hazard. According to a recent report by the President's Task Force on Environmental Health Risks and Safety Risks to Children, approximately 24 million U.S. dwellings were at risk for lead-based paint hazards in 1999 (1). The term lead-based paint means paint or other surface coatings that contain lead at contents that "equal or exceed a level of 1.0 milligram per centimeter squared or 0.5 percent by weight"

EPA issued a final rule called the Lead; Renovation, Repair, and Painting Program rule last April 22, 2008 (<http://www.epa.gov/fedrgstr/EPA-TOX/2008/April/Day-22/t8141.pdf>). The rule was issued to address lead-based paint hazards created by renovation, repair, and painting activities that disturb lead-based paint in target housing and child-occupied facilities. The rule mentions the development of an improved test kit for paint that has a false negative rate of no more than 5% and a false positive rate of no more than 10% vis-à-vis the federal standards for lead-based paint. Under this rule the EPA evaluation and recognition program for test kits, initially for kits that are candidates to meet the goal of a 5% false negative rate, and then for kits that are candidates to meet the joint goals of a 5% false negative rate and a 10% false positive rate are mentioned.

The current rule on p 21713 states that test kit performance would have to be "validated by a laboratory independent of the kit manufacturer, using ASTM International's E1828, Standard Practice for Evaluating the Performance Characteristics of Qualitative Chemical Spot Test Kits for Lead in Paint (Ref. 28) or an equivalent validation method. The instruction for use of any particular kit would have to conform to the results of the validation, and the certified renovator must follow the manufacturer's instructions when using the kit." Some of the main features of the ASTM document will be used for the evaluation testing of these kits and EPA will only recognize kits that have been properly validated by a laboratory independent of the kit manufacturer.

The rule also states on page 21713 that with respect to the improved test kits, EPA has determined that Environmental Technology Verification Program (ETV) is a suitable vehicle for obtaining independent laboratory validation of test kit performance. EPA intends to use ETV or

an equivalent testing program approved by EPA for the test kit recognition process. EPA's Environmental Technology Verification (ETV) Program develops testing protocols/plans and verifies the performance of innovative technologies that have the potential to improve protection of human health and the environment. ETV was created to accelerate the entrance of new environmental technologies into the domestic and international marketplace. Market input is conveyed by the active involvement of stakeholder groups consisting of technology buyers, sellers, permittees, consultants, financiers, exporters and others within each sector. Further, verification is open to all vendors of commercial-ready environmental technologies in a given category of interest to ETV. ETV verifies agency priorities, like the determination of lead in paint test kits performance, under the Environmental and Sustainable Technology Evaluations (ESTE) portion of the ETV program.

ETV has developed three documents to help guide program operation and ensure program credibility and consistency. The first document is the ETV Quality Management Plan (QMP). This is a program management document used by ETV to guide its operation. The ETV QMP explains in detail the quality assurance policies and procedures, including the development of center-specific QMPs by the verification organizations (VOs), in the case of the Environmental and Sustainable Technology Evaluation projects like this one, test/QA plans that contain or references quality management system documentation that meets ETV standards. The second is the ETV Program Policy Compendium, which defines the operating policies developed to encourage consistency among the ETV centers. The third document is the draft ETV Guidelines for Proper Use of the ETV Name and Logo (EPA 2007). This document contains the policy and procedures for using the ETV name, logo, or verified data.

Statement of Work

The Qualitative Spot Test Kit Verification described in this Work Assignment has been divided into six separate tasks. Tasks 1-4 under Phase I of this WA were initiated during the work assignment 4-16 under contract EP-W-04-021, which ended on June 2, 2009. Tasks 5 and 6 under Phase II and III of this WA shall be performed under this follow on work assignment. Activities under Tasks 1, 2, and 4 to be performed under this follow on work assignment are identified in bold under the respective tasks. These activities are not duplicate work. Task description for Phase II and III was part of the technical work plan which is a deliverable for the previous work assignment. The contractor shall comply with the ETV QMP (<http://www.epa.gov/etv/pubs/600r08009.pdf>), Policy Compendium (<http://www.epa.gov/etv/pubs/600r08025.pdf>), and Guidelines for Proper Use of the ETV Name and Logo (<http://www.epa.gov/etv/pubs/600r08029.pdf>) when performing these tasks.

Phase I (The majority of task 1 - 4 has been completed in the previous work assignment 4-16. Part of Phase 1 that will continue in this follow on work assignment is emphasized in bold)

1. Stakeholder Technical Panel

The Contractor shall develop a panel of stakeholders to provide the broad spectrum of input perspectives necessary to assure the development of an effective paint test kit verification protocol and test/quality assurance (QA) plans. The panel of stakeholders shall include individuals and groups such as buyers, sellers, permittees, consultants, financiers, exporters, etc. It is important that all appropriate individuals and groups of potential stakeholders have the opportunity to become active stakeholders in the process that will lead to the development of a fair and valid verification protocol and test/QA plan. The contractor shall continue ongoing stakeholder technical panel communications relevant to the testing of the lead test kits. The contractor shall host stakeholder meetings, as needed, and submit stakeholder meeting minutes to the EPA WAM in original and *.pdf form for posting on the ETV web site. PDF files must be 508 compliant.

Stakeholder activities, including T/QAP reviews following vendor input, shall be continued during this follow-on work assignment, on an as needed basis. Deliverables, such as stakeholder meeting minutes, shall also be produced on an as needed basis.

2. Development of the Test/Quality Assurance Plan and Verification Protocol

2.1 Development of the Test/Quality Assurance Plan (T/QAP)

The contractor shall develop and implement a practical and statistically valid test/quality assurance plan (T/QAP) for testing of spot test kits which will be based on ASTM 1828 and meets ETV quality and other requirements. The contractor shall also develop a standard operating procedure (SOP) that meets ETV quality and other requirements for the development of the ETV PEMs. The contractor shall develop this T/QAP and SOP based on technical input from stakeholders, EPA, and others. It is critical that the T/QAP is capable of demonstrating whether or not each test kit can achieve both the false negative and false positive criteria of 40 CFR 745.88(c) as published in the final Lead RRP rule. The T/QAP shall include (but is not limited to) the following: 1) verification test design which includes the method for selection and/or procurement of prospective painted panels on which the spot test kit verification testing is conducted, 2) the execution of the verification testing, and 3) the elements mentioned in the ETV QMP Part B Sec 2.2.2. These elements are project management, measurement/data acquisition, assessment/oversight and data validation and usability. **The T/QAP shall also include appendices containing the following:**

- **Results of CoV and homogeneity testing for the PEMs produced under this WA and WA 4-16, contract EP-W-04-021**
- **The Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification**

Program (Final)

- **An EPA-reviewed and approved SOP detailing how to sample paint from each substrate for the reference analysis during the ETV test.**

The T/QAP shall be peer reviewed by independent experts, EPA, and others, as needed, and updated as necessary. The T/QAP shall include or be accompanied by a written description of the contractors quality assurance policies and procedures (e.g., the contractor's QMP). This information will be reviewed by EPA to determine whether the contractor's quality management system meets ETV requirements.

The preliminary T/QAP shall be delivered to the WAM as described in the deliverables section of this work assignment. **The contractor shall develop a final T/QAP under this follow on work assignment based on vendor and other input received as a result of the vendor reviews. Also as part of EPA's goal of developing sustainability metrics, the contractor with consultation from the stakeholders shall develop as part of the operational factors data quality objectives to determine volume and type of waste generated from the use of each test kit, toxicity of chemicals used, cost effective use, as well as other metrics that may address the sustainability issue. The final T/QAP shall be signed by the EPA WAM, EPA QA Manager, Contractor Program Manager, and the Contractor QA Manager, and posted to the ETV website after EPA administrative review. The source files and pdfs for the T/QAP will be submitted to EPA for publication on the ETV web site within ten (10) business days of finalization. PDF files must be 508 compliant. The final T/QAP will be used to test the technologies under Task 5 of this follow on work assignment. Changes to T/QAP requirements/procedure will be approved by EPA.**

3. Development and Production of Performance Evaluation Materials (Please review this section)

The contractor shall develop and produce PEMs to be used to verify the performance of the new spot test kits. The development of these PEMs shall cover a range of different criteria to allow for the verification of the performance of each spot test kit based upon the different methods of detection which each spot test kit uses. The contractor shall develop estimates of the costs and production times for the varying PEMs based upon the following criteria:

- Use of water based paint or "old formula" oil based paint
- Two (2) different speciations of paint. (white lead and lead chromate)
- Four (4) different manufactured substrates, (wood, metal, drywall and plaster).
- Seven (7) levels of lead; which consist of 0.0, 0.3, 0.6, 1.0, 1.4, 2.0 and 6.0 mg/cm².
- Three different colors of paint which will be randomized across other variables.
- A minimum of two (2) overlaying no-lead-based paint.

Actual specifications may vary based on stakeholder and EPA input. Specific concentrations may also vary based on the results of a Homogeneity Study being performed on PEMs under another work assignment. The contractor shall allow EPA

technical and quality assurance staff to perform onsite audits, as needed, prior to and during PEM preparation to insure that the quality of the data collected during testing are sufficient for verification.

4,368 PEMs were developed during WA 4-16 under EPA contract EP-W-04-021. These PEMs were to be used to test up to nine lead in paint test kits under Phase II, task 5. Under this WA, EPA anticipates that up to 13 lead in paint test kits may be submitted for verification testing. Accordingly, under this task, the contractor shall develop enough PEMs so that ultimately up to 13 lead in paint kits can be tested under Phase II, task 5. The contractor shall also develop one additional backup set of PEMs for future use. The total number of additional panels to be developed for this work assignment is 2,184 PEMs. These additional PEMs will be developed per the requirements and procedures outlined in the Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program dated Oct 09, 2009 as well as the requirements and procedures from an updated version of this SOP. The updated SOP will include any changes that were implemented in the preparation of the first set of PEMs.

The contractor will send to EPA the CoV and homogeneity results from the different reference panel concentrations, along with a recommendation on whether to proceed to full panel productions or recommendations for correct actions to be taken. EPA will review the data provided by the contractor to see if they agree with the contractor's recommendation. If EPA agrees with the recommendation, they will forward a note contractor stating this. If EPA does not agree with the recommendation, they will forward a note explaining their concerns and request that an alternate recommendation be provided.

The contractor shall allow EPA technical and quality assurance staff to perform onsite audits, as needed, prior to and during PEM preparation to insure that the quality of the data collected during testing are sufficient for verification. The contractor shall perform another internal TSA on this new batch of PEMs. The contractor shall require from the subcontractor a complete set of data packages, preferably in electronic form, for all the samples that were analyzed. The contractor shall perform an ADQ on 10 % of the complete set of data packages. EPA will provide guidelines on what constitute a complete set of data packages.

4. Vendor recruitment and coordination

The contractor shall openly solicit for vendors by advertising plans for verification testing of particular technology types on the ETV Web site, via ETV voice, and using external outreach mechanisms (e.g., trade journals, etc.). The contractor shall also be responsible for coordinating with the technology vendors prior to, during, and after verification testing, to ensure the successful completion of the verification effort. The contractor shall provide PEM samples developed under a separate WA by OPPT to all interested vendors as part of vendor recruitment. The contractor shall also ensure that technology

vendors are provided with copies of the ETV QMP, Policy Compendium, Guidelines for Proper Use of the ETV Name and Logo, and the information found in Appendix A of this WA. The Language of the solicitation needs to be approved by EPA before posting.

Vendor recruitment and coordination activities, including distributing the preliminary drafts of the T/QAP to interested vendors, shall be continued on an as needed basis during this follow-on work assignment. Vendors shall be given up till June 30, 2009 to comment on the preliminary T/QAP. Contractor shall also develop vendor agreements with vendors to be tested.

Phase II (this part of the work assignment is being addressed in its entirety under this follow on work assignment)

5. Verification Testing

The Contractor shall conduct the verification testing of paint test kit instruments designed to meet higher standards of accuracy as described in the EPA-approved T/QAP. Test kit verification will be conducted using a variety of painted surfaces. The actual number and types of painted test surfaces shall be determined based on the stakeholder and EPA input and shall be documented in the final T/QAP. Both synthetic painted film strips and real world painted house components (containing (lead based paint) LBP) may be used for verification testing of existing kits. If four or more vendors/manufacturers apply and are ready for ETV testing prior to September 30, 2009, EPA may initiate ETV testing early (July-August time frame) for those vendors, and then will conduct an additional round of ETV testing in November for vendors that apply later in the year but by the September 30 deadline. For vendors that initiate and successfully perform under the early ETV testing, EPA will recognize their kits prior to September 1, 2010.

ETV anticipates that newly developed test kits, designed to meet higher standards of accuracy (recently defined by EPA under the Lead RRP, published April 22, 2008) shall be tested. **Accuracy criteria have been set at: 1) a false positive rate no more than 10% (when tested at or below 0.8 mg/cm²), and 2) a false negative rate of no more than 5% (when tested at or above 1.2 mg/cm²).** After September 1, 2010, EPA OPPT will start recognizing test kits based on their ability to meet these requirements.

The contractor shall allow EPA technical and quality assurance staff to perform onsite audits, as needed, prior to and during verification testing to insure that the quality of the data collected during testing are sufficient for verification. **As part of the ETV QMP requirements the contractor shall also conduct their own internal Technical Systems Audit (TSA) within one month of the beginning of testing. The contractor shall require from the subcontractor a complete set of data packages, preferably in electronic form, for all the samples that were analyzed. Copies of electronic data packages will be submitted to EPA upon receipt. The contractor shall perform an ADQ on 10 % of the complete set of data packages. EPA will provide guidelines on what constitute a complete set of data packages and minimum ADQ requirements. The report and response to these internal audits shall be provided to EPA and downloaded on the ETV web database by the contractor.**

Phase III

6. Reporting

The Contractor shall prepare a written peer-reviewed and quality-assured verification report (VR) for each test kit technology detailing the verification testing results from the testing. The report must comply with the VR requirements as discussed in the ETV QMP. The observed performance of each kit tested will be described in this verification report. The performance of different test kit technologies will not be ranked. The reports will describe, in addition to each kits' verification performance (accuracy and precision), parameters such as operational factors which include operator observations, ease of use, and sample throughput, waste disposal, volume and type of waste generated from the use of each test kit, toxicity of chemicals used, cost effective use, as well as other metrics that may address the sustainability issue, specialized training needed, and cost. The source file and pdf for this report will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

In addition to the verification reports described above, the contractor shall develop a verification statement (VS) for each verified test kit. In ETV the VS is usually a 2-5 page summary of the verification report. It is a requirement that this summary is created for each report. The statement must comply with the VS requirements as discussed in the ETV QMP and shall include accuracy and precision data on each test kit as well as information about operator observations, ease of use, sample throughput, training requirements, and cost. The source file and pdf for this statement will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

Schedule of Milestones and Deliverables

Under this follow on work assignment, EPA will only fund Tasks 5 and 6 and some of the ongoing efforts (**bold**) which are mentioned in Task 1. Majority of tasks 1, 2, 3, 4 have been funded under the previous contract and **will not be duplicated** under this follow on work assignment.

A work plan with schedules of deliverables and the verification testing will be due 15 days from the issuance of this follow on work assignment (WA). Relevant OPPT Schedules are provided in Appendix B.

The Contractor shall submit monthly progress reports that shall contain, at a minimum, the progress on each task, the costs to date, the reason for any deviations from the project schedule, and a planned expenditure rates for Tasks 5 and 6 and some of the ongoing efforts.

When a stakeholder meeting is held minutes are due to EPA within three (3) weeks of each meeting. The source file and pdf for the minutes will be submitted to ETV for publication on the ETV web site. PDF file must be 508 compliant.

List of Vendors who have signed in to participate in the ETV testing of the test kits and copies of the vendor's contract agreement will be provided no later than three weeks from the issuance of this follow on work assignment (WA).

Standard operating procedure (SOP) for the development of the ETV PEMs. An updated SOP will be submitted one (1) week from the issuance of this WA. This SOP shall address all the changes that were needed in preparing the first set of PEMs. This updated SOP will be used for preparing the 2nd batch of PEMs.

The preliminary draft T/QAP which has been reviewed by participating vendors will be due 15 days after the vendors have provided their comments on the T/QAP. As part of the previous work assignment the preliminary draft T/QAP should have been reviewed by the EPA QA and WAM, Contractor QA and PO and will only be reviewed for the vendors' comments. Since this T/QAP should have also been peer reviewed by independent experts, as well as some stakeholders, there may be a need to obtain the independent experts and stakeholders comments on any changes to the T/QAP as a result of the vendor's review. EPA will only review the vendors' comments and any changes as a result of these comments. EPA will send the reviewed T/QAP to the contractor within two weeks after receipt from the contractor. A final TQAP which is signed by the Contractor QA and PO will be due one week after receipt by the Contractor of the EPA reviewed T/QAP for vendors' comments.

If the vendors do not have any comments or changes, then a final TQAP which is signed by the Contractor QA and PO will be due one week after the deadline for vendor's comments.

A T/QAP which has been reviewed by EPA, the stakeholders and the vendors should be available for final review and approval. All quality assurance and related measurement issues will be addressed in this deliverable, including sustainability metrics for wastes, cost, etc. Results of CoV and homogeneity testing for the PEMs shall be included in an appendix to the T/QAP. The updated Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program shall also be included in the appendix. An SOP will be produced detailing how to sample paint from each substrate for the reference analysis during the ETV test. This SOP will be included as an addendum to the test/QA plan (TQAP). This TQ/AP will be submitted no later than July 30, 2009.

The 2,184 PEMs produced under this WA (i.e., in addition to the PEMs produced during WA 4-16 under contract EP-W-04-021), are due within three months from the issuance of this work assignment. These additional PEMs will be developed per the requirements and procedures outlined in the Standard Operating Procedure (SOP): Revised Plan for Development and Production of Performance Evaluation Materials for Testing of Test Kits for Lead in Paint under the Environmental Technology Verification Program dated Oct 09, 2009 as well as the requirements and procedures from an updated version of this SOP.

Summary results of verification testing is due one week after the end of each testing. See OPPT Schedules on Appendix B.

A copy of the internal audit reports reports (TSA, ADQ) and response on the verification testing will be due six (6) weeks after completion of the verification testing. Internal audit reports (TSA, ADQ) on the 2nd batch of PEMs prepared and response to these audits shall be due 10 days after the audits were completed.

Draft Verification Reports will be due twelve (12) weeks after completion of the verification testing. Verification Testing is expected to end by March 30, 2010

Completed verification reports and statements will be due to EPA WAM no later than sixteen (16) weeks from the completion of the verification testing. Verification Testing is expected to end by March 30, 2010. Verification reports and statements should comply with the requirements specified in the ETV QMP. Verification reports and statements must be 508 compliant.

Both parties shall communicate regularly throughout the testing and evaluation process. The Contractor shall obtain COR concurrence on all decisions affecting cost and delivery schedules.

Performance measures:

The government shall review the completeness of the T/QAP which will be reviewed by the vendors, preparation of the PEMS which are within specs as outlined in the updated PEM SOP, minutes of the meeting with the vendors, the internal audit reports and responses, the verification reports and statements, and promptness of submitting these deliverables as required in this work assignment.. If the contractor is late by more than 14 calendar days, from the due date specified in the work assignment, the government shall take a 10% reduction in the fee associated with the development of the final T/QAP and additional PEMS, development of the verification reports and statements for this verification testing, that is, the fee associated with the development of these deliverables for this amended work assignment. The reduction shall be applied to all fees, both the paid fee and the unpaid fee.

Period of Performance: From the date of the Contracting Officer's signature to **June 2, 2010**.

Level of Effort: A total of **4070** hours are not to be exceeded for completion of Tasks 5 and 6 and some of the on going efforts from Phase 1. The contractor shall inform the EPA WAM when 75% of the level of effort has been expended.

Work Assignment Manager

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Deputy Work Assignment Manager

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Appendix A

The contractor shall ensure that technology vendors are provided with copies of the ETV QMP, Policy Compendium, Guidelines for Proper Use of the ETV Name and Logo, and the following information:

- Verification testing shall be conducted in accordance with the approved ETV test/QA plan which will be posted on the EPA ETV Web site. Vendors will be provided an opportunity to review and comment on this plan before the test/QA plan is approved by EPA and testing commences.
- Testing shall occur at a predetermined test date(s) and location(s), agreed to by the vendor(s), contractor, and EPA. The test date and location shall not be changed without obtaining agreement from all parties.
- Once verification testing is initiated, it shall be completed in its entirety and the results of the testing shall be published by EPA in a verification report which EPA will post on the EPA ETV Web Site (www.epa.gov/etv). Typically a verification statement is also produced and posted on the EPA ETV Web Site, although a vendor can send a request in writing to the EPA ESTE project manager requesting not to have a verification statement prepared. Vendors will be provided an opportunity to review and comment on the verification report and statement before they are finalized by EPA.
- Verification test data provided to vendors prior to the publication of the verification report may only be used by a vendor if the vendor notes that the data have not been finalized by EPA.
- The vendor will need to assign a technical point of contact for the verification and provide, at no cost to EPA or the contractor, a unit(s) of the technology to be tested, equipment and materials needed to operate the technology during testing, and written descriptions and diagrams of the technology. The vendor assumes all responsibility for any loss or damage of any kind to the technology and any equipment provided by the vendor for verification testing.
- ETV does not endorse, approve, or certify for use any technology that it verifies. Under no circumstances shall the ETV Name or Logo be used in a manner that would imply EPA endorsement, approval, certification, guarantee, or warrantee of the company, its products, its technologies, or its services. Vendors interested in using the ETV name or logo shall need to send a letter to the EPA ESTE project manager stating that they have read and will abide by ETV's name and logo use policy. A copy of the logo use policy is posted on the ETV Web Site at www.epa.gov/etv. If EPA or its ETV VOs discover that ETV verification is being misrepresented, the verification will be revoked if necessary. Failure by a developer/vendor or their representative(s) (e.g., licensed distributor, foreign subsidiary, contractor, advertisement agency, etc.) to make the required correction(s) may result in removal of the developer's/vendor's verification report and statement from the ETV Web Site and revocation of the verification report and statement.
- When supplying information to EPA or its contractor, the vendor is responsible for

identifying information that it believes is entitled to confidential treatment for reasons of business confidentiality in accordance with the Agency's regulations at 40 C.F.R. Part 2, Subpart B. The vendor will clearly identify confidential information disclosed to EPA and its contractor in writing and clearly memorialize in writing, within a reasonable time, any confidential information initially disclosed orally. EPA will not disclose, copy, reproduce or otherwise make available in any form information designated as confidential information without the consent of the vendor, except as such information may be subject to disclosure under the Freedom of Information Act (5 U.S.C. § 552), and EPA's regulations at 40 C.F.R. Part 2, or as otherwise authorized by law. Clauses have been included within EPA's contract with its contractor addressing the treatment of confidential information.

- With the exception of confidential information (see previous bullet for information on identifying confidential information and how this information will be treated by EPA and its contractor), ultimately all other procedures, data, results, reports, and statements, developed or generated during the verification process for a vendor's technology may be made available to the public.

Appendix B

Relevant OPPT Schedules

<u>Vendors review Test Quality Assurance Protocol(T/QAP)</u>	<u>* May 1 – June 15, 2009</u>
<u>ETV application period ends for kits</u>	<u>September 30, 2009</u>
<u>Manufacturer/Vendor signs agreement and submits kits for ETV testing</u>	<u>September/October 2009</u>
<u>ETV Testing of kits begins</u>	<u>November 2009</u>
<u>ETV Testing of kits ends</u>	<u>February/March 2010</u>
<u>Recognitions of new kits announced (see Note¹)</u>	<u>September 1, 2010</u>
¹ Note: If four or more vendors/manufacturers apply and are ready for ETV testing prior to September 30, 2009, EPA may initiate ETV testing early (July-August time frame) for those vendors, and then will conduct an additional round of ETV testing in November for vendors that apply later in the year but by the September 30 deadline. For vendors that initiate and successfully perform under the early ETV testing, EPA will recognize their kits prior to September 1, 2010.	
* This refers to all prospective vendors, whether they have a ready test kit or not, who may be interested in having their kits recognized under Phase 2. T/QAP will be finalized after June 15 and will be used in the subsequent verification testing of the lead test kits.	

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-07

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"Bioanalytical Methods for Environmental and
Exposure Monitoring"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan Approval

Periods of Performance

From: 07/16/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan at a cost of \$127,174.00.
Currently, there are 879 Professional Labor Hours allocated for this Work Assignment.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 8)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	881
This Action	\$127,174.00	(2)
Total	\$127,174.00	879

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 07/31/09	Cost/Fee: \$127,174.00	LOE: -2
Cumulative Approved: 09/02/09	Cost/Fee: \$127,174.00	LOE: 879

Work Assignment Manager Name

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Branch/Mail Code

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Fax Number (702) 798-2243

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07, Amendment: 0001

Summary Information

Title: "Bioanalytical Methods for Environmental and Exposure Monitoring"
Period of Performance: From: 07/16/09
To: 06/22/10
Award Date: 07/16/09
Total Funding:

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	\$ (b)(4)
Fixed Fee	Base Pd.	

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 881 to 879.



States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-

☒ Original ☐ Amendment Number:

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance
From: 07/16/09 To: 06/22/10

Comments:

Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee: LOE:
Previously Approved

This Action

Total \$0.00 881

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 881

Work Assignment Manager Name

JEANETTE M. VAN EMON

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(Date)

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Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

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Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

Summary Information

Title: "Bioanalytical Methods for Environmental and Exposure Monitoring"
Period of Performance: From: 07/16/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: JEANETTE M. VAN EMON
P.O. BOX 15027
LAS VEGAS, NV 89114

Mail Code:
Phone Number: (702) 798-2154
Fax Number: (702) 798-2243
E-Mail Address: vanemon.jeanette@epa.gov

Attachments

Attachment Name

"Bioanalytical Methods for Environmental and Exposure Monitoring"

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

NERL WORK ASSIGNMENT (WA)

1. WA Title: Bioanalytical Methods for Environmental and Exposure Monitoring
2. Contract Name: Statistical and Technical Support for the Assessment of Toxic Substances
3. Contract No.: EP-W-09-024 Contractor: Battelle
4. Contract Period: I WA Number: TBA Amendment No.
5. WA COR: Jeanette M. Van Emon, MDAB/HEASD, Las Vegas, (702) 798-2154
(Name, Branch/Division, Mail Code, Phone)
6. Est. Labor Hours: 881 Completion Date: One year, 06/22/10

Relevant Contract SOW Sections: Task I, #1 and #2b; Task II, #1 and #5; Task V, #1 and #2.

Comments: (i.e., new WA, adding deliverables, etc.) for use by PO or CO:

7. Are any "sensitive" activities performed under this WA? (If "yes", explain safeguards that are in place under special requirements of work assignment). ☐ Yes ☒ No

8. Approvals (Signature and Date)

WA-COR: Jeanette M. Van Emon _____ Date _____
(702-798-2154)

Supervisor/Branch Chief: Myriam Medina-Vera _____ Date _____
(919-541-5016)

Division Director: Roy Fortmann _____ Date _____
(919-541-1021)

Project Officer: Sineta Wooten _____ Date _____
(202-566-0501)

Contracting Officer: Christine Edwards _____ Date _____
(202-564-2812)

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

9. Statement of Work: (SOW) (Use as much space as necessary)

(A) *Goal/Purpose:* SEE LAST PAGE

(B) *Background Information:* SEE LAST PAGE

(C) *Work Assignment (SOW):*

Task 1) Provide Quality Assurance Project Plan (QAPP).

Contractor shall provide a Category 4 QAPP to encompass all aspects of this work assignment. Contractor shall amend the QAPP used for Work Assignment Number 52 under contract EP-D-04-068 (already in the EPA QATS) for the purposes of this new Work Assignment.

Task 2) Complete the selective pressurized liquid solvent/accelerated solvent extraction procedures initiated under contract number EP-D-04-068 for application to pesticides including pyrethroids. Provide standard operating procedures (SOPs) in the approved EPA format.

Contractor shall perform selective pressurized liquid solvent extraction procedures using different absorbents for the extraction and cleanup of pesticides and polychlorinated biphenyls (PCBs) prior to immunoassay and GC/MS detection for real world soil and sediment samples received from contaminated sites, and clothing patches and food samples from human exposure assessment studies. Estimated total number of samples is 50 (based on sample availability).

Task 3) Provide GC/MS data for the selective pressurized liquid/accelerated solvent extracts for pesticides and PCBs.

Contractor shall perform a standard GC/MS multi-residue analysis such as those described in SW-846 for the analysis of pesticides and perform GC/MS analysis for PCBs using the SOP from Work Assignment #52 (contract EP-D-04-068) for the extracts obtained from Task 2 above.

Task 4) Complete the multi-analyte immunoassay formatting procedures initiated under contract EP-D-04-068 for PCBs for application to pyrethroids and other pesticides. Provide standard operating procedures (SOPs) in the approved EPA format.

Contractor shall complete the assessment of various immunoassay formats including sol gels, 96-well plate methods, and microarrays for the multi-analyte detection of various PCB congeners and pesticides.

Task 5) Provide data for a peer-reviewed manuscript based on results from the selective pressurized liquid fluid extraction and GC/MS results.

Contractor shall assist in the preparation of a manuscript for the peer-reviewed literature.

(D) *Deliverables and Project Description*

TASK.1) The Contractor shall submit a draft version of the Quality Assurance Project Plan (QAPP) similar to the plan used for Work Assignment Number 52 under contract EP-D-04-068 (already in the EPA QATS) within two weeks of the initiation of this Work Assignment. The WA-COR may provide tentative approval for the Contractor to initiate laboratory analysis based on the adequacy of the draft QAPP. The WA-COR will provide written comments and recommendations to the Contractor within two weeks of receipt of the QAPP. The Contractor shall submit a final version of the QAPP to the WA-COR within two weeks of receipt of the EPA comments. Final version shall be submitted in hard copy (2 copies) and in a Microsoft Word file. Acceptance will be indicated by the WA-COR to the Contractor via email based on comments received from an EPA QA review

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

TASK 2) Contractor shall apply pressurized liquid extraction methods for the analysis of pesticides and PCBs. Contractor shall complete SOPs for each method developed. Contractor shall deliver data reports and SOPs to the WA-COR on or before 09/30/09 via email in a MicroSoft Word 2003 file or newer compatible format. WA-COR to provide comments to the Contractor within two weeks after receipt of reports and SOPs. The Contractor shall reconcile WAM-COR comments within two weeks of receipt of comments. The WA-COR to indicate final acceptance two weeks after receipt of final reports and SOPs via email based on comments received from an internal EPA review.

TASK 3) Contractor shall apply standard GC/MS multi-analyte methods for the detection of pesticides in the pressurized liquid extracts from Task 2 above using methods found in SW-846. Contractor shall perform GC/MS analysis of the pressurized liquid extracts for PCBs using the SOP previously developed under contract EP-D-04-068. Contractor shall deliver data reports to the WA-COR on or before 01/30/10 via email in a MicroSoft Word 2003 file or newer compatible format. WA-COR to provide comments to the Contractor within two weeks after receipt of reports. The Contractor shall reconcile WA-COR comments within two weeks of receipt of comments. The WA-COR to indicate final acceptance two weeks after receipt of final reports and SOPs via email based on comments received from an internal EPA review.

TASK 4) Contractor shall complete the multi-analyte immunoassay formatting procedures initiated under contract EP-D-04068 and apply the appropriate procedures to the extracts from Task 2 above. Analytes and procedures to be determined by the WA-COR after the formatting procedures are completed. SOPs shall be developed for each method completed. Contractor shall deliver data reports and SOPs to the WA-COR on or before 03/30/10 via email in a MicroSoft Word 2003 file or newer compatible format. WA-COR to provide comments to the Contractor within two weeks after receipt of reports and SOPs. The Contractor shall reconcile WA-COR comments within two weeks of receipt of comments. The WA-COR to indicate final acceptance two weeks after receipt of final reports and SOPs via email based on comments received from an internal EPA review.

TASK 5) The Contractor shall assist in the preparation of a co-authored manuscript for a peer-reviewed journal based on Tasks 2, 3 and 4 above. Contractor shall provide data tables and appropriate figures based on the data reports and SOPs from the above Tasks. The suitable journal to be mutually agreed upon by the Contractor and WA-COR after completion of all the above Tasks.

(E) *QA Code for WA:* ☐ Directed Research ☒ Applied and Basic Research

(F) *QA/QC Requirements for WA:* Category 4 QAPP

(G) *Special Requirements:* None

(H) *Reports and Meetings:*

(i) Any additional reports needed beyond those automatically provided? ☐ YES ☒ NO (If yes, specify)

(ii) Indicate your requirements for meetings with task manager.

Need	Meeting Purpose	Frequency
X	to discuss Work Plan	prior to lab work and as needed
X	to review data or analyses	as needed
	to review monthly cost report	

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

X

to review quarterly progress
report

once per quarter

Other (describe below):

(I) *Travel/Training Requirements (include destination/dates/purpose):*

WORK ASSIGNMENT REVIEW CHECKLIST

PLEASE NOTE: ALL OF THE FOLLOWING ITEMS MUST BE PRESENT IN ANY SUBMITTED WORK ASSIGNMENT AND MUST BE MANUALLY CHECKED, SIGNED AND DATED.

- 1 Requirements are consistent with the scope of work of the contract (Requires coordination with Project Officer). WAM has copy of SOW for reference.
- 2 Background statement provides sufficient information to enable understanding of context of the project.
- 3 Objective(s) are clearly stated.
- 4 References (e.g., to Research Project Plan) are included, as appropriate.
- 5 Tasks or task areas are listed and described and are consistent with the background/objectives.
 - Scope of Contractor requirements is clear.
 - Responsibilities of Contractor and Government are clear. (Note: "The Contractor shall..." and "The Government will...")
 - Information to be made available to Contractor is indicated.
- 6 Deliverables are listed and described.
 - Schedule (due dates) for each deliverable are specified and realistic.
 - Draft and final deliverables are listed, as appropriate.
 - Acceptance criteria are specified, as appropriate.
 - Electronic format is specified, as appropriate.
- 7 Overall period of performance is provided. This does not exceed period of overall contract.
- 8 Management controls are described, indicating how EPA will ensure adequate input to and review of Contractor work.
- 9 Staff requirements are specified, as appropriate.
- 10 Quality assurance requirements (e.g., data quality objectives, audit requirements) are provided, as appropriate.

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

- 11 Special requirements (e.g., additional reports) are specified, as appropriate.
- 12 Services do not create appearance of personal services.
- 14 Services do not represent organizational conflict of interest for proposed Contractor.

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

CBI REVIEW OF INDIVIDUAL WORK ASSIGNMENTS

Contract EP-W-09-024
No.

Contractor Battelle

WA NO. WA 0-07

WA Title: Bioanalytical Methods for
Environmental and
Exposure Monitoring

CO Christine Edwards
Name:

PO Sineta Wooten / Ronald J. Morony
Name:

WA- Jeanette M. Van Emon
COR
Name:

Signature

Date

		Yes	No
1	Under this DO/WA, does the contractor or subcontractor currently have access to CBI?	<input type="checkbox"/>	X
2	Under this DO/WA, will the contractor or subcontractor potentially have access to CBI?	<input type="checkbox"/>	X
3	Is the contractor or subcontractor authorized to have access to CBI?	<input type="checkbox"/>	X
4	Did any amendments to this DO/WA preclude disclosure of CBI?	<input type="checkbox"/>	X

Comments (if applicable):

"Bioanalytical Methods for Environmental and Exposure Monitoring"

Contract: EP-W-09-024, Work Assignment: 0-07

Note: If the answers to Questions 1 and 2 are "NO", this action presents no problem. If the answer to Question 3 is "YES", this action presents no problem. In either case, after review by the Associate Director or the CMD Director, the form may be retained in a separate file. If the answer to Questions 1 or 2 is "YES" and the answer to Question 3 is "NO", a problem exists. This form requires submission. If the answer to Question 4 is "YES", this form requires submission even though no problem exists.

ATTACHMENT

9. Statement of Work: (SOW) (Use as much space as necessary)

- (A) *Goal/Purpose:* The major goal of this work assignment is the application of bioanalytical methods for environmental monitoring and human exposure assessment to increase the amount of information available concerning the source and concentration of pollutants at contaminated sites of concern. Selective extraction and cleanup methods, and quantitative immunoassay methods (adaptable to field detection) will be applied to real-world environmental and human exposure samples (as available). The overall goal of this Work Assignment is to help reduce the uncertainties in the assessment of environmental health and human exposure through low-cost, high sample capacity, monitoring capabilities for compounds of environmental concern through effective bioanalytical monitoring methods. Data and SOPs from this Work Assignment can help support Goal 4: Healthy Communities and Ecosystems; Sub-objective 4.1.1: Reduce chemical Risks.
- (B) *Background Information:* The EPA Superfund Office and other Program Offices are concerned about the high cost of environmental monitoring for many pollutants of concern. The analysis of PCBs, dioxins and other organic compounds including pesticides can be costly and time consuming. Bioanalytical detection methods such as immunoassays can provide many advantages. Immunoassays can be applied to a wide variety of compounds resulting in significant cost savings. These methods provide a high sample throughput in a short time frame. Extraction techniques such as pressurized liquid extraction/accelerated solvent extraction provide time advantages over liquid-liquid extraction methods. These extraction techniques can be applied to various sample matrices such as soil, sediment, food, and clothing patches. The pressurized liquid extracts are compatible with both GC/MS and immunoassay detection.

United States Environmental Protection Agency
Washington, DC 20460Work Assignment Number
0-08

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base X Option Period NumberTitle of Work Assignment
"E-Learning Training Courses for RRP Contractors"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☒ Work Plan ApprovalPeriods of Performance
From: 07/16/09 To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan date 09 September 2009, at a cost of \$97,965.00. Currently, there are 772 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 6)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	617
This Action	\$97,965.00	155
Total	\$97,965.00	772

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 09/09/09	Cost/Fee: \$97,965.00	LOE: 155
Cumulative Approved: 10/13/09	Cost/Fee: \$97,965.00	LOE: 772

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

BRADLEY AUSTIN

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-5574

Fax Number (202) 565-2560

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08, Amendment: 0001

Summary Information

Title: "E-Learning Training Courses for RRP Contractors"
Period of Performance: From: 07/16/09
To: 06/22/10
Award Date: 07/16/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: BRADLEY R. AUSTIN
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 3803R
Phone Number: (202) 564-5574
Fax Number: (202) 565-2560
E-Mail Address: austin.bradley@epa.gov

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	(b)(4)
Fixed Fee	Base Pd.	

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 617 to 772.

U.S. States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Work Assignment Number

0-0

☒ Original ☐ Amendment Number:

Title of Work Assignment

"E-Learning Training Courses for RRP Contractors"

Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 07/16/09

To: 06/22/10

Comments:

Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:

Cost/Fee

LOE

Previously Approved

This Action

Total

\$0.00

617

Work Plan / Cost Estimate Approvals

Contractor WP Dated:

Cost/Fee:

LOE:

Cumulative Approved:

Cost/Fee: \$0.00

LOE: 617

Work Assignment Manager Name

RONALD J. MORONY

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0474

Fax Number (202) 566-0469

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

Summary Information

Title: "E-Learning Training Courses for RRP Contractors"
Period of Performance: From: 07/16/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: RONALD J. MORONY
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 7404T
Phone Number: (202) 566-0474
Fax Number: (202) 566-0469
E-Mail Address: morony.ronald@epa.gov

ALTERNATE WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: MICHAEL P. WILSON
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 7404T
Phone Number: (202) 566-0521
Fax Number: (202) 566-0471
E-Mail Address: wilson.mike@epa.gov

Attachments

Attachment Name

"E-Learning Training Courses for RRP Contractors"

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

Contract Number: EP-W-09-024

Work Assignment Number: 0-08

Title: E-Learning Training Courses for Renovation, Repair, and Painting Contractors

I. Purpose

The purpose of this work assignment is to create two model E-learning courses and model course requirements based on the in-class format of EPA's model renovation training courses for the Renovation, Repair, and Painting Program final regulations (40 CFR 745, Subpart E), issued April 22, 2008 (73 FR 21692). The model training courses provide contractors and lead dust sampling technicians with training and methodologies to ensure that residents (especially children) are not exposed to lead hazards as a result of the renovation process. The courses addressed by this work assignment include the initial Renovator course and the initial Lead Dust Sampling Technician course. The renovator e-learning initial course will be based on the existing joint EPA/HUD in-class Initial Certified Renovator training curriculum. The Lead Dust Sampling Technician (LDST) E-learning course will be based on the existing in-class Lead Dust Sampling Technician Initial training curriculum. Both in-class versions can be found at (<http://epa.gov/lead/pubs/training.htm>). The assistance needed includes converting existing curriculum into an electronic learning format covering all material and learning objectives covered primarily with text but also limited audio and interactivity, including knowledge checks. The task also includes the creation of e-learning course requirements should a certified training organization choose to create their own E-learning training. The task may include, with EPA consultation, the management of a review panel process and focus group testing of the completed materials.

II. Background

The Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X) directed EPA to develop regulations under the Toxic Substances Control Act (TSCA) Section 402(a) which create standards for conducting lead-based paint activities that include abatement. EPA has already promulgated final regulations for lead-based paint activities in target housing and child-occupied facilities (40 CFR Part 745). These regulations require that individuals conducting lead-based paint inspections, risk assessments and abatement be properly trained and certified and that the work be performed in accordance with the standards set forth in the rule.

TSCA Section 402(c) directed EPA to address renovation and remodeling activities by first conducting a study to determine the extent to which persons engaged in various types of renovation and remodeling activities in target housing are exposed to lead in the conduct of such activities or disturb lead and create a lead-based paint hazard. Section 402(c) further directed the Agency to use the results of the study and consult with stakeholders to determine which

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

renovation and remodeling activities should be subject to regulations under Section 402(a). EPA was then directed to revise the Section 402(a) regulations for abatement activities and apply them, if appropriate, to renovation or remodeling activities.

The Renovation and Remodeling Study was completed in March 1999. EPA determined that sufficient data was available to proceed with regulatory development.

EPA published final regulations on April 22, 2008. The Agency began accepting applications for the accreditation of training programs in April 2009. In order to more efficiently and quickly deliver accrediting training programs the Agency must create e-learning versions of the initial renovator and dust sampling technician training courses.

II. Scope of Work:

Subtask 1 - Workplan Preparation and Task Management

Within 15 days of the effective date of the Work Assignment (WA) approval, the contractor shall provide the Work Assignment Manager (WAM) with a draft work plan outlining the approach, resources, timeline, and estimated costs for the subtasks listed below. Work under this subtask will include participating in conference calls, meetings, creating focus groups, preparing, progress reports and other task management.

Subtask 2 - Model Initial Renovator E-Training Course, Storyboard and Knowledge Checks

The Contractor shall create an e-learning training based directly on the existing model in-class initial renovator training course and learning objectives. No text in the course shall be changed without specific approval of EPA. The course shall include text and limited audio and interactive material coverage of all the material included in the in-class version with the exclusion of the final exam and the "hands on" portion of the training. Each module of the training shall include knowledge checks to cover all 42 of the learning objectives previously identified. The contractor shall recommend, in consultation with EPA, how to structure the knowledge check questions in order to ensure that the subject area has been mastered. For example, the knowledge checks could include an explanation of why the user answered each knowledge check question correctly or incorrectly. There shall be a final knowledge check for the electronic learning format, if the student does not get a score of at least 70% they will be instructed on which sections they need to review and allowed to take the final knowledge check again after a specified amount of time. When the student scores 70% or higher a certificate will be generated that includes the required identifying information (Note: The requirements will include specifications for identifying information that the training provider must include to verify that an individual has successfully completed the on-line training). The Contractor shall recommend, in consultation with EPA, how to manage students who do not pass the final knowledge check (e.g., should there be a waiting period before they can take it, how long, how

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

many times they can take it, etc.). Neither the knowledge checks during the training nor the final knowledge check shall include the test bank questions developed for the renovator final exam. The contractor shall recommend, in consultation with EPA, whether the e-learning will have the same number of modules as the in-class training based on their experience and knowledge of e-learning. The contractor shall provide comments on suggested improvements and revise materials based on EPA direction. The course shall include instruction on all the topics covered by the in-class initial renovator course: 1) Why Should I be Concerned with Lead Paint, (2) Regulations, (3) Before Beginning Work, (4) Contain Dust During Work, (5) During the Work, (6) Cleaning Activities and Checking Your Work, (7) Recordkeeping, (8) Training Non-certified Workers.

Subtask 3 - Model Lead Dust Sampling Technician E-Training Course, Storyboard and Knowledge Checks

The Contractor shall create an e-learning training based directly on the model lead dust sampling technician (LDST) in-class initial training course and learning objectives. The course shall include text, and limited audio and interactivity coverage of all the material included in the in-class version with the exclusion of the "hands-on" training and the final exam. No text in the course shall be changed without EPA approval. The contractor shall use the learning objectives from the in-class version of the LDST training that were developed to assist in the preparation of LDST final exam questions. Each learning objective must be tested with a knowledge check question. The contractor shall decide, with EPA consultation, whether each knowledge check question shall include an explanation of why the user answered each knowledge check question correctly or incorrectly. There shall be a final set of knowledge check questions, if the student does not get at least 70% they will be instructed as to which sections they need to review and allowed to take the final exam again after a specified amount of time. When the student scores 70% or higher a certificate will be printed or transmitted to the certified training provider including the required identifying information. The Contractor shall also decide, with EPA consultation, how to manage students who do not pass the final knowledge check (should there be a waiting period before they can take it, how long, how many times they can take it, etc.). Neither the knowledge checks during the training nor the final knowledge check shall include test bank questions. The contractor shall decide, with EPA consultation, whether the e-learning will have the same number of modules as the in-class training based on their experience or knowledge of e-learning. The contractor shall, provide comments on suggested improvements, and revise materials based on EPA direction. The course shall include instruction on all the topics covered by the in-class lead dust sampling technician course including the following sections, (1) Introduction, (2) Visual Inspection, (3) Lead dust wipe sampling, (4) Selecting a laboratory and interpreting results, (5) Writing the report, (6) Putting the skills together.

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

Subtask 4: If Directed by EPA, Review Panel and Focus Group Testing

This task shall only be undertaken if directed by EPA. The Contractor shall oversee a panel process to review the course materials prepared in subtasks 2 and 3. The panel, participants which will be identified by EPA, will be asked to provide comments regarding the content and practicality of the course. The contractor shall track panel comments, and update materials as directed by EPA. In addition, following the review panel process the contractor shall conduct focus group testing of the materials developed under subtasks 2 and 3, and present results to the Agency for consideration.

Subtask 5 - Specifications for Alternative E-training Courses

The Contractor shall prepare requirements for training providers to use as guidelines to develop and teach their own e-training curriculum for the initial certified renovator and/or the LDST course. These specifications will be based on the model courses created as defined in this document as well as other relevant requirements to ensure consistency in e-learning courses developed by training providers. The requirements shall include alternate course content requirements, level of interactivity, knowledge checks and other pertinent information to assure consistency.

The requirements must also include specifications about elements necessary in any training providers learning management system. The contractor shall, in consultation with EPA, develop training provider requirements including, but not limited to, the following:

- Must use a learning management system that allows them to register participants and provide them with a unique ID and password to track their progress and ensure that they completed the course;
- Must have a system which allows the user to ask questions of a principle instructor if they have questions during the training. The questions must be answered within 24 hours.
- There shall also be a requirement that only one version of the course can be open at any given time so that a user cannot reference the course to find the answer to the knowledge check questions.
- There must also be a requirement that there be at least three versions of the final knowledge check. The knowledge check cannot include any questions from the final exam. The accredited trainer must develop multiple versions of the final knowledge check and include in their quality control plan (required to be submitted when they apply for accreditation) their "procedures for periodic revisions of training materials and course test to reflect innovations in the field" 745.225(c)(9)(i). Students will be required to demonstrate their knowledge by getting a score of 70% or higher on the final knowledge check covering the e-learning. If they do not receive a score of 70% or higher they must be required to review the applicable course material and allowed to re-take the final knowledge check after a specified amount of time.
- The course must also bookmark the user's progress so they may start and

stop the course.

III. Schedule and Deliverables:

Subtask 1: - 15 days after contracting officer approval of work assignment

Subtask 2: - First draft, 3 weeks after approval of work assignment
- Final draft, 6 weeks after approval of work assignment

Subtask 3: - First draft, 10 weeks after approval of work assignment
- Final draft, 13 weeks after approval of work assignment

Subtask 4: If directed by EPA, Review Panel and Focus Group Testing
- Begin review panel for initial renovator course 4 weeks after approval of work assignment
- Complete process for initial renovator course and incorporate appropriate changes 6 weeks after work assignment
- Begin review panel for LDST course 8 weeks after approval of work assignment
- Complete process for initial renovator course and incorporate appropriate changes 10 weeks after work assignment

Subtask 5: - First draft, 2 weeks after approval of work assignment
- Final draft, 4 weeks after approval of work assignment

A QA Plan is not required.

A work plan is required.

CBI does not apply.

This work assignment relates to Statement of Work Task III, Program Support.,

IV. Period of Performance:

This work assignment will start on the date of the contracting officer's signature and extend through June 22, 2010.

V. Level of Effort:

This work assignment shall require 780 professional hours.

VI. EPA Contacts:

Work Assignment Manager:

Ronald J. Morony
Program Assessment and Outreach Branch
National Program Chemicals Division (7404T)
US EPA
1200 Pennsylvania Ave., NW
Washington, DC 20460

"E-Learning Training Courses for RRP Contractors"

Contract: EP-W-09-024, Work Assignment: 0-08

Ph: (202)566-0474

Fax: (202)566-0469

Email: morony.ronald@epa.gov

Deputy Work Assignment Manager:

Mike Wilson

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National Program Chemicals Division (7404T)

US EPA

1200 Pennsylvania Ave., NW

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United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☐ Original ☒ Amendment Number: 3Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Title of Work Assignment

"EPA Regulations that Reference Mercury
Non-Fever Thermometers"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose:

☐ Work Assignment Initiation☐ Work Assignment Close-Out☒ Work Assignment Amendment☐ Incremental Funding☒ Work Plan Approval

Periods of Performance

From: 08/04/09

To: 06/22/10

Comments:

This amendment approves the Technical and Financial Work Plan dated 09 February 2010, at a cost of \$42,992.00. Currently, there are 629 PLHs allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:
Previously ApprovedCost/Fee
\$0.00LOE
392

This Action

\$42,992.00

237

Total

\$42,992.00

629

Work Plan / Cost Estimate Approvals

Contractor WP Dated : 02/09/10

Cost/Fee: \$42,992.00

LOE: 237

Cumulative Approved: 02/26/10

Cost/Fee: \$42,992.00

LOE: 629

Work Assignment Manager Name

HIROSHI A. DODOHARA

Branch/Mail Code 7404T

Phone Number (202) 566-0507

Fax Number (202) 566-0473

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

DENNIS J. BUSHTA

Branch/Mail Code 3803R

Phone Number (202) 564-9706

Fax Number (202) 565-2560

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09, Amendment: 0003

Summary Information

Title: "EPA Regulations that Reference Mercury Non-Fever Thermometers"
Period of Performance: From: 08/04/09 To: 06/22/10
Award Date: 08/04/09
Total Funding:

Procurement Management Roles

The following item(s) have been modified:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: CHRISTINE EDWARDS
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Date Role Ended: 02/25/10

Mail Code: 3803R
Phone Number: (202) 564-2182
Fax Number:
E-Mail Address: edwards.christine@epa.gov

The following item(s) have been added:

ADMINISTRATIVE CONTRACTING OFFICER:

U.S. E.P.A.
Attn: DENNIS J. BUSHTA
1200 PENNSYLVANIA AVE, NW
WASHINGTON, DC 20460

Mail Code: 3803R
Phone Number: (202) 564-9706
Fax Number: (202) 565-2560
E-Mail Address: bushta.dennisjames@epa.gov

WA Totals

The following item(s) have been added:

Category	POP	Amount
Estimated Cost	Base Pd.	S (b)(4)
Fixed Fee	Base Pd.	

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 392 to 629.

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment

Assignment Number

☐ Original ☒ Amendment Number: 2Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"EPA Regulations that Reference Mercury
Non-Fever Thermometers"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 08/04/09

To: 06/22/10

Comments:

Battelle's Work Plan dated 22 October 2009, has been rejected. The Work Assignment Manager has provided a counterproposal which is attached. A revised Technical and Financial Work Plan is required.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE
Previously Approved \$0.00 392

This Action \$0.00 0

Total \$0.00 392

Work Plan / Cost Estimate Approvals

Contractor WP Dated : 10/22/09 Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 392

Work Assignment Manager Name

HIROSHI A. DODOHARA

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0507

Fax Number (202) 566-0473

Project Officer Name

SINETA WOOTEN

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(Date)

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Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09, Amendment: 0002

Summary Information

Title: "EPA Regulations that Reference Mercury Non-Fever Thermometers"
Period of Performance: From: 08/04/09
To: 06/22/10
Award Date: 08/04/09
Total Funding:

Attachments

The following item(s) have been added:

Attachment Name

Work Assignment Manager's Counterproposal for WA 0-09

Battelle's proposal for WA 0-09 dated 22 October 2009, does not meet our requirements and we submit a counter proposal as follows.

Task 1. Guidance Document

Under a previous work assignment, contractor provided four video tutorials developed by the subcontractor. These videos require revisions; however, revisions are currently not needed by EPA. In addition under the previous WA, subcontractor developed a user-friendly guidance that will assist users in converting to non-mercury alternatives with a minimum of cost and effort, while still maintaining acceptable measurement uncertainties. The text for this guidance document was completed under WA4-14, Contract No. EP-W-04-021, Tasks 2 through Task 5. This guidance document shall be published by the subcontractor under subcontractor's official publishing protocol and shall make clear reference to NIST as a co-author.

Task 2. Study of Replacement of Mercury Thermometers in Autoclaves

Under the previous WA, subcontractor completed preliminary tests on alternatives to mercury thermometers in autoclaves that recognized two potential alternatives. Further work on this task has been put on hold by EPA

Task 3. Recommendation of Alternatives for Petroleum Applications.

A. EPA has coordinated with the American Petroleum Institute (API) a field study (Pilot Program) to test alternative thermometers at the BP marketing terminal tank farm in Fairfax, VA. The following thermometers and thermohydrometers were identified in use at the terminal. Examples of potential alternatives for the mercury thermometers are listed as well. Non-mercury thermohydrometers are available in the market but have no official designation such as an ASTM number.

<u>BP Terminal Thermometers</u>	<u>Examples of Alternative Thermometers</u>
-------------------------------------	---

ASTM 130F	ASTM S12F
ASTM 63F	ASTM S63F
ASTM 97F	ASTM S59F

<u>BP Terminal Thermohydrometers</u>	<u>Examples of Alternative Thermohydrometers*</u>
--	---

API 60 ASTM 56HL	API 60 ASTM S56HL*
API 69 ASTM 55HL	API 60 ASTM S55HL*
API 60 ASTM 52HL	API 60 ASTM S52HL*
API 51 ASTM E-100	API S51 ASTM E-100*

*Suppliers may market non-mercury thermohydrometers using a pre-fix S preceding the thermohydrometer number.

At their discretion, subcontractor may coordinate a visit to the BP terminal with EPA/API to assess measurement needs and possible interferences.

Contractor, with advisement from subcontractor, will procure alternative thermometers and thermohydrometers. Subcontractor will calibrate the alternative thermometers and thermohydrometers prior to transfer to the BP terminal for testing. Contractor, under advisement of subcontractor, will procure an intrinsically safe electronic thermometer (example: Thermoprobe TL1-W) for use at the BP terminal. Subcontractor shall evaluate the electronic thermometer.

Under this work assignment, EPA estimates that no significant data will be available for assessment and analysis. EPA expects useful data will be available in near term for upcoming assignments.

B. EPA is negotiating a second pilot project with API at a pipeline terminal in Cushing, OK. Scant data is available for the types of thermometers being used there. Preliminary indication is that the thermometers have the following characteristics:

- (a) 30°F to 124°F - 3" immersion
- (b) 50°F to 160°F - 3" Immersion
- (c) 0°F to 180°F - Total Immersion

Thermometer (c) is likely an ASTM 59F for which there is a non-mercury replacement S59F. Subcontractor will explore the market for suppliers of Thermometers a and b and provide EPA with any information collected.

C. Asphalt processing in the petroleum industry may require the use ASTM 60F thermometer (temperature range - 170°F to 500°F). A non-mercury thermometer liquid-in-glass with PerformaTherm as the actuating fluid is available with a temperature range of 30°F to 394°F. This thermometer is a total immersion model with a scale of 0.5°F. Contractor, under advisement of the subcontractor, will procure this thermometer and subcontractor will evaluate it in the temperature range of 150°F to 394°F. In addition, subcontractor will explore the market for thermometers suitable for use at the high temperature ranges approaching 500°F and report results to EPA.

D. (i) Suppliers are offering thermometers with the designation S58F, a nomenclature which indicates that it is a non-mercury replacement for the ASTM 58F thermometer. Contractor under advisement of subcontractor shall procure a S58F thermometer and test the thermometer to compare characteristics of the S58F to those of the ASTM 58F.

(ii) In Task 3A, should contractor decide to procure the thermometer S59F, then subcontractor shall compare the characteristics of the S59F to those of the ASTM 98F thermometer within its working temperature range.

(iii) A thermometer having a temperature range from 20°F to 220°F is often used in the petroleum industry. Total length is 12 inches, with graduation of 1°F and accuracy of 0.5°F. Although a S12F thermometer may be suitable, subcontractor will explore the market for a thermometer with an exact temperature range.

(iv) An angle stem thermometer is sometimes used in the petroleum industry, although representatives have noted that these are not as common as they were in the past.

Work Assignment Manager's Counterproposal for WIA 0-09

Contract: EP-W-09-024, Work Assignment: 0-09, Amendment: 002

Subcontractor shall explore the market for an alternative angle thermometer of nominal temperature range, approximately 12 inches in length, 1°F graduation, and 0.5F accuracy.

Questions regarding this matter should be addressed to Hiroshi Dodohara at 202-566-0507.

United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-09

Work Assignment

☐ Original ☒ Amendment Number: 1Contract Number
EP-W-09-024Contract Period
Base X

Option Period Number

Title of Work Assignment
"EPA Regulations that Reference Mercury
Non-Fever Thermometers"Contractor
BATTELLE MEMORIAL INSTITUTESpecify Section and Paragraph of Contract SOW
See attached Statement of WorkPurpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out
☒ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance

From: 08/04/09

To: 06/22/10

Comments:

This Work Assignment is amended to add revisions to the Statement of Work (attached).
The LOE is increased by 200 Professional Labor Hours.☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:	Cost/Fee	LOE
Previously Approved	\$0.00	192
This Action	\$0.00	200
Total	\$0.00	392

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE: 200

Cumulative Approved: Cost/Fee: \$0.00 LOE: 392

Work Assignment Manager Name

HIROSHI A. DODOHARA

Branch/Mail Code 7404T

Phone Number (202) 566-0507

Fax Number (202) 566-0473

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09, Amendment: 0001

Summary Information

Title: "EPA Regulations that Reference Mercury Non-Fever Thermometers"
Period of Performance: From: 08/04/09
To: 06/22/10
Award Date: 08/04/09
Total Funding:

Attachments

The following item(s) have been added:

Attachment Name

Revised SOW dated 30 September 2009

WA Classification

The following changes have occurred:

The Labor Hour Ceiling has changed from 192 to 392.

CONTRACT NUMBER: EP-W-09-024

WORK ASSIGNMENT NUMBER: WA 0-09 AMENDMENT 1

DATE: 30 SEPTEMBER 2009

SUBJECT: EPA REGULATIONS THAT REFERENCE MERCURY NON-FEVER THERMOMETERS

This Work Assignment amendment is an addendum to the continuation of the work under contract EP-W-04-21 Work Assignment 4-14 for the replacement of mercury thermometers. No work will be duplicated. Mercury is used in liquid-in-glass thermometers. The new provision are added as **bold text**.

Scope of Work

Task 1 Guidance Document

Add to the task:

Revise the Alternate Thermometer Videos. Add an Introductory Section bringing together the four videos on Alternative Thermometers, Traceability, Ice Point and Steam Point Calibration.

Task 2 Autoclave and Petroleum Field Measurement

Add the following:

A. Autoclave. No further change.

B. Petroleum Field Measurement: Research availability of intrinsically safe electronic temperature measurement devices suitable for field use in fuel oil, gasoline and ethyl alcohol environment such as may be applicable to petroleum tank terminals. List at least three items by name, supplier and cost range. At least one of the items should be suitable for operating in the temperature range of the ASTM 60F thermometer and have a performance specification equal to or better than the 60F thermometer.

In addition, API (American Petroleum Institute) has identified commonly used tank thermometers with temperatures ranging up to 500°F (ASTM 97F, ASTM 98F and ASTM 60F). Alternative liquid-in-glass thermometers are available in the market but may not have ASTM specifications. Table A below lists these mercury thermometers and examples of alternative liquid-in-glass thermometers which may be viable replacements for these mercury thermometers. The temperature ranges of the alternative thermometers span those of the mercury thermometers. One additional mercury thermometer is listed, Fisher 15-041B, which is used for calibration. One alternative thermometer is listed which has identical features as

the Fisher thermometer.

Contractor shall procure the mercury thermometers and at least one of the alternative thermometers for testing as potential replacement for the mercury thermometers. The alternative thermometers may be those listed in Table A or any other appropriate liquid-in-glass thermometers. These alternative liquid-in-glass thermometers shall be tested for accuracy and for the ASTM "scale error, max" through the temperature range of the mercury thermometers. Contractor must inform WAM of the procurement of items. Contractor shall obtain emergent stem correction factors for these thermometer liquids glass from the manufacturers.

TABLE A. Mercury Thermometers and Alternative Thermometers

MERCURY THERMOMETER	ALTERNATIVE THERMOMETER		Divisio n or Sub- divisio n	Total or Partial Immersi on
Name/Number	Manufacturer or Supplier/Number	Temperature Range		
ASTM 97F	--	0° F to 120° F	1° F	Total
	S59F: Humboldt H-2601.S59FFC	0° F to 180 F	1° F	Total
	S58F*: Humboldt H-2601.S58FFC	-30° F to 120 F	1° F	Total
	S58F*: Gammon GTP 1670SB	-30° F to 120 F	1° F	Total
	Omega GT-1302RL	0° F to 125° F	1° F	Total
ASTM 98F	--	60° F to 180° F	1° F	Total
	S59F: Kessler 1256S	0° F to 180 F	1° F	Total
	Omega 1304 RL	30° F to 180 F	1° F	Total
ASTM 60F	--	170° F to 500° F	2° F	Total
	Humboldt H-2617	20° F to 500° F	2° F	Total
	Cole-Palmer R-08118-51	20° F to 500° F	2° F	Total
	W.L. Walker 56372	20° F to 500° F	2° F	Total
Fisher 15-041B	--	- 1°C to +101° C	0.1° C	Total
	Kessler 2104 RL	- 1°C to +101° C	0.1° C	Total
	Cole-Palmer R-93905-89	- 1°C to +101°	0.1° C	Total

C

*Currently, there is no ASTM Thermometer Number designated S58F

DELIVERABLES

Task 1 Deliverables

Within two (2) weeks after the issuance of the contract, the contractor shall submit a preliminary copy of the video for review.

Within one (1) month after issuance of the contract, the contractor shall submit a final review appropriate for mass production and distribution.

Within one (1) month after issuance of the contract, the contractor shall submit a preliminary draft for comment of the study results and report,

Within two (2) months after issuance of the contract, the contractor shall submit a final report, electronic and hard copy, suitable for use by EPA in publications and as hand-outs.

Task 2 Deliverables

Within 15 days after issuance of the contract, the contractor shall submit a Work Plan for review and acceptance.

Task 2A. Within one month (1) after issuance of the contract, the contractor shall submit a preliminary draft report of the study. Task 2B. Within one (1) months after issuance of the contract, the contractor shall submit a preliminary draft report of progress in the study.

Task 2A. Within three (3) months after issuance of the contract, the contractor shall submit a preliminary draft for comment of the study results and report. Task 2B. Within three (3) months after issuance of the contract, the contractor shall submit a preliminary draft for comment of the study results and report.

Task 2A and 2B. Within four (4) months after issuance of the contract, the contractor shall submit a final report, electronic and hard copy.

III. Period of Performance

This work assignment will commence on the date of the contracting officer's signature through December 2009.

IV. Level of Effort

This work assignment for Task 1 and 2 shall require 200 hours.



United States Environmental Protection Agency
Washington, DC 20460

Work Assignment Number

0-0

Work Assignment

☒ Original ☐ Amendment Number:

Contract Number
EP-W-09-024

Contract Period
Base ☒ Option Period Number

Title of Work Assignment
"EPA Regulations that Reference Mercury
Non-Fever Thermometers"

Contractor
BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW
See attached Statement of Work

Purpose: ☒ Work Assignment Initiation ☐ Work Assignment Close-Out
☐ Work Assignment Amendment ☐ Incremental Funding
☐ Work Plan Approval

Periods of Performance
From: 08/04/09 To: 06/22/10

Comments:
Work Assignment Initiation

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period: Cost/Fee LOE
Previously Approved

This Action

Total \$0.00 192

Work Plan / Cost Estimate Approvals

Contractor WP Dated: Cost/Fee: LOE:

Cumulative Approved: Cost/Fee: \$0.00 LOE: 192

Work Assignment Manager Name

HIROSHI A. DODOHARA

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0507

Fax Number (202) 566-0473

Project Officer Name

SINETA WOOTEN

(Signature)

(Date)

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

Other Agency Official Name

(Signature)

(Date)

Branch/Mail Code

Phone Number

Fax Number

Contracting Official Name

CHRISTINE EDWARDS

(Signature)

(Date)

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

Summary Information

Title: "EPA Regulations that Reference Mercury Non-Fever Thermometers"
Period of Performance: From: 08/04/09
To: 06/22/10
Award Date:
Total Funding:

Procurement Management Roles

WORK ASSIGNMENT MANAGER:

U.S. E.P.A.
Attn: HIROSHI A. DODOHARA
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ALTERNATE WORK ASSIGNMENT MANAGER:

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Attachments

Attachment Name

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

BATTELLE CONTRACT NUMBER: EP-W-09-024

WORK ASSIGNMENT NUMBER: 0-09

TITLE: "EPA REGULATIONS THAT REFERENCE MERCURY NON-FEVER THERMOMETERS"

This Work Assignment is a continuation of the work began under contract EP-W-04-021 Work Assignment 4-14 for the replacement of mercury thermometers. Mercury is used as added on material in liquid-in-glass thermometers.

Tasks. (1) Development of a Straightforward Easily Understandable Guidance on the Replacement of Mercury Thermometers, and (2) Testing of Potential Replacement for Mercury Thermometers in the Operation of Autoclaves and Other Elevated Temperature Procedures.

Purpose: As part of the ongoing program to reduce mercury-containing products where effective substitutes exist, the U. S. Environmental Protection Agency (EPA) is promoting the reduction and phase out of non-fever mercury-in-glass thermometers used in industrial and commercial settings. One path to the reduction of use of mercury thermometers is to identify and to promote suitable alternatives and replacements for the mercury thermometer. This Work Assignment continues the research previously tasked to develop a straightforward easily understandable guidance document for the replacement of mercury thermometers where effective substitutes exist. This guidance document will facilitate the transition to the use of alternatives and replacements of mercury thermometers.

This Work Assignment continues the study to investigate the replacement of mercury thermometers in the operation of autoclaves and expands the study to include vacuum/steam autoclaves and sterilizers, and to include procedures requiring elevated temperatures such as incubators and water baths. In addition, initiate a study to replace mercury thermometers in hazardous/explosives atmosphere such as seen in petroleum and liquid gas operations. Prospective candidates will be procured for testing in laboratories as well as in commercial autoclaves and sterilizers.

I. Background: Exposure to mercury can lead to a number of adverse health effects, including lung, gastrointestinal and nervous system damage. Most human exposure to mercury is through the consumption of fish containing mercury that deposits from the air. Exposure can also occur by contact with or inhalation of elemental mercury from breakage or improper disposal of mercury-containing products such as industrial mercury thermometers. EPA has initiated a program to phase out use of mercury thermometers in cases where suitable alternatives exist. EPA is evaluating ways to promote the use of non-mercury thermometers in industrial settings. EPA has searched its regulations for sections which require the use of mercury thermometers and found ten segments in the passages relating to the Clean Air Act. The EPA Air Quality program is capable of providing flexibility to use alternatives to mercury thermometers on a timely basis. EPA also searched its regulations for standards which require the use of mercury

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

thermometers. ASTM has reviewed its standards and found that over 850 of its standards make reference to mercury. EPA has found over 650 occurrences of these ASTM standards in its regulations and is reviewing them for relevance to mercury thermometers. A review of the EPA laboratories found that mercury thermometers are difficult to replace particularly in the operation of autoclaves. Autoclaves, which operate at very elevated temperatures, require that mercury thermometers be placed within the chamber to monitor temperatures to assure that the required temperature has been attained.

II. Scope of Work

Summary of Previous Tasks

The contractor has enlisted the National Institute of Standards and Technology (NIST) an institutions with nationally recognized credentials to develop and to publish a fundamental, easily understandable guidance document for the replacement of mercury thermometers. EPA intends to utilize this document to promote the replacement of mercury thermometers and phase-out of the use of mercury thermometers nationwide where effective alternatives exist.

Accreditation of laboratories and research facilities is of utmost importance. To ensure accreditation, thermometers must confirm creditable performance during audits. The contractor shall include in the guidance document to provide the user such methods to confirm the performance of alternatives to be equal to that of the mercury thermometers. The use of the freezing point and the boiling point of water is an example.

Other issues in accreditation and validation of laboratory practices include certification and traceability of temperature measuring devices to national standards. The contractor will provide basic principles of the requirements for maintaining traceability and methods for maintaining traceability. The contractor may consult with test laboratory staffs recommended by the WAM in developing traceability and certification procedures which are straightforward, and where practicable, parallel to available procedures.

The contractor shall investigate and test existing temperature measuring devices and their suitability as alternatives and replacements for mercury thermometers in the operation of autoclaves and other elevated temperature equipment such as incubators and water baths. In particular, the use of "min-max" thermometers appropriate for use in these types of equipment usually refers to mercury-in-glass thermometers. The contractor shall visit autoclave users to better characterize their requirements and limitations. Then the contractor shall explore existing alternatives to mercury thermometers and report their applicability to elevated temperature equipment, achievable uncertainties, and limitations of these systems.

Carrying out the WA involved six tasks:

Task 1. Work Plan and Task Management

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

- Task 2. Guidelines for Selection Replacement of Mercury Laboratory Thermometers
- Task 3. Guidelines for Maintaining Traceability to NIST
- Task 4. Guidelines for Thermometer Validation
- Task 5. Publication of Materials
- Task 6. Study of Replacement of Mercury Thermometers in Autoclaves

New Work Scope

Task 1

The contractor delivered a report detailing results of research and surveys and methodology used in the course of publishing the guidance document. However, it is advantageous to EPA's goal to have for distribution to the public a publication from NIST, a nationally accredited agency. This WA continues the development of the guidance document

TASK 2

The contractor shall continue to investigate alternatives to maximum-registering thermometers and vacuum/steam pressure autoclaves and sterilizers. Applications such as laboratory vacuum-steam autoclaves, medical-hospital autoclaves, and retort autoclaves shall be examined. At a minimum, three viable candidates for such applications should be examined and those applicable shall be procured and tested. Examples of candidates are:

- ERTCO HiTEMP 102 Recorder, Temperature Range -40°C to 125°C, intrinsically safe.
 - DataPac Food Tracker System with Thermal Barrier, MultiPac 21 data logger, Temperature Range -190°C to 400°C.
 - Extech* 39420 Waterproof thermometer, Temp range -40° to 200°C
- * This candidate should be tested for incubator and water bath applications as well.

Contractor is currently assessing the Madge Tech Hitemp 150 data logger. At least two additional candidates must be assessed.

Task 1 Deliverables

Within 15 days after issuance of the contract, the contractor shall submit a Work Plan for review and acceptance.

Within seven (2) months after issuance of the contract, the contractor shall submit a preliminary draft for comment of the study results and report.

Within nine (9) months after issuance of the contract, the contractor shall submit a final

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

report, electronic and hard copy, suitable for use by EPA in publications and as hand-outs.

Task 2 Deliverables

Within 15 days after issuance of the contract, the contractor shall submit a Work Plan for review and acceptance.

Within six (6) months after issuance of the contract, the contractor shall submit a preliminary draft report of progress in the study.

Within nine (9) months after issuance of the contract, the contractor shall submit a preliminary draft for comment of the study results and report.

Within eleven (11) months after issuance of the contract, the contractor shall submit a final report, electronic and hard copy, suitable for use by EPA in publications and as hand-outs.

III. Period of Performance

This work assignment will commence on the date of the contracting officer's signature through July 2009.

A work plan is required.

A QA/QC plan is not required.

CBI does not apply.

IV. Level of Effort

This work assignment for Task 6A shall require 192 hours.

"EPA Regulations that Reference Mercury Non-Fever Thermometers"

Contract: EP-W-09-024, Work Assignment: 0-09

EPA Contacts

I. Work Assignment Manager:

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II. Deputy Work Assignment Manager:

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Work Assignment

☐ Original ☒ Amendment Number: 4Contract Number
EP-W-09-024

Contract Period

Base X

Option Period Number

Title of Work Assignment

"Contaminated Sediments Support for the
Great Lakes National Program Office"

Contractor

BATTELLE MEMORIAL INSTITUTE

Specify Section and Paragraph of Contract SOW

See attached Statement of Work

Purpose: ☐ Work Assignment Initiation ☐ Work Assignment Close-Out☒ Work Assignment Amendment ☐ Incremental Funding☒ Work Plan Approval

Periods of Performance

From: 08/04/09

To: 06/22/10

Comments:

This amendment approves the Financial Work Plan dated 21 June 2010, at a cost of \$176,379.00. Currently, there are 3,637 Professional Labor Hours allocated for this Work Assignment.

☐ Superfund

Accounting and Appropriations Data

☒ Non-Superfund

Line	DC (Max 6)	Budget/FYs (Max 4)	Appropriation Code (Max 6)	Budget Org/Code (Max 7)	Program Element (Max 9)	Object Class	Amount	(Dollars)	(Cents)	Site/Project (Max 8)	Cost Org/Code (Max 7)
1											
2											
3											
4											
5											

Authorized Work Assignment Ceiling

Contract Period:

Cost/Fee

LOE

Previously Approved

\$468,254.00

3,661

This Action

\$176,379.00

(24)

Total

\$644,633.00

3,637

Work Plan / Cost Estimate Approvals

Contractor WP Dated: 06/21/10

Cost/Fee: \$176,379.00

LOE: 24

Cumulative Approved:

Cost/Fee: \$644,633.00

LOE: 3,637

Work Assignment Manager Name

E. M. WINES

Branch/Mail Code G17J

Phone Number (312) 866-6036

Fax Number (312) 886-8121

(Signature)

(Date)

Project Officer Name

SINETA WOOTEN

Branch/Mail Code 7404T

Phone Number (202) 566-0501

Fax Number (202) 566-0469

(Signature)

(Date)

Other Agency Official Name

Branch/Mail Code

Phone Number

Fax Number

(Signature)

(Date)

Contracting Official Name

CHRISTINE EDWARDS

Branch/Mail Code 3803R

Phone Number (202) 564-2182

Fax Number

(Signature)

(Date)

Contractor Acknowledgement of Receipt and Approval of Workplan (Signature and Title)

Date